

Tri-Party Agreement Milestone Review – Office of River Protection

May 20, 2003

0060306

Meeting Minutes

Approval: *Michael A. Wilson*  
 for Michael A. Wilson (B5-18)  
 Ecology IAMIT Representative

Date: 8/26/03

Approval: *W. Wade Ballard*  
 W. Wade Ballard (A5-12)  
 RI IAMIT Representative

Date: 8/26/03

Approval: *James E. Rasmussen*  
 Jim E. Rasmussen (H6-60)  
 Chairman and ORP IAMIT Representative

Date: 8/26/03

Approval: *Nick Ceto*  
 Nick Ceto (B5-01)  
 EPA IAMIT Representative

Date: 8/26/03

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Minutes Prepared by:

Approval: *Eileen J. Murphy-Fitch*  
 Eileen J. Murphy-Fitch (A1-14)  
 Fluor Hanford, Inc.

Date: 7/22/03

**EDMC**

Aromi, E. S.	CHG	H6-63	Mattlin, E.	RL	A5-15*
Bartus, D.	EPA	B5-18*	Mauss, B.	ORP	H6-60*
Bilson, H. E.	RL	A3-04	Miera, F. R.	CHG	R1-31*
Brown, M.	Ecology	B5-18*	Morrison, R. D.	FH	A4-25*
Buxbaum, M.E.	FH	B3-53	Murphy-Fitch, E. J.	FH	A4-25*
Clark, C. E.	RL	A5-15*	K. Niles	OOE*	
Clark, D.	ORP	H6-60*	Piippo, R. E.	FH	A4-25
Cusack, L.	Ecology	B5-18*	Rasmussen, J. E.	ORP	H6-60
Dahl, S.	Ecology	B5-18*	Ramsay, M.	ORP	H6-60
DeWitt, K.	Ecology	B5-18	Rodriguez, H. M.	RL	A5-15
Dixon, B. T.	CHG	R1-51	Russell, W.	ORP	H6-60*
Duncan, G. P.	CHG	R3-76	Singleton, D.	Ecology	B5-18
Fowler, S. B.	CHG	H6-22*	Skinnarland, E. R.	Ecology	B5-18
Gay, R.	CTUIR		Sobczyk, S.	Nez Perce	
Hansen, J. L.	ORP/Inn	H6-60*	Stanley, R.	Ecology	Lacey*
Hebdon, J.	RL	A5-12*	Stevens, A.	ORP	H6-60
Hedges, J.	Ecology	B5-18*	Taylor, W.	ORP	H6-60*
Henry, D.	OOE*		Uziemblo, N. H.	Ecology	B5-18*
Hertz, J. S.	FH	A1-14	Vinson, R.	PEC	H6-60
Jentzen, B.	Ecology	B5-18*	Williams, D. J.	ORP	H6-60*
Jim, R.	YIN		Yasek, R.	ORP	H6-60
Keggen, D.	Ecology	B5-18*	Administrative Record	EDMC	H6-08*
LaMont, P.	ORP	H6-60	File: TPAM_11_02.doc	*w/Attachments	
Lober, R.	ORP	H6-60			
Liou W.	ORP	H6-60			

Office of River Protection  
Tri-Party Agreement Milestone Review  
May 20, 2003

\*\*\*\*\*  
FY 2003 ORP Tri-Party Agreement Milestone Performance

Start: 9:05 a.m.  
End: 9:11 a.m.

The Single-Shell Tank (SST) Closure M-045 milestone series was modified in accordance with approved Tri-Party Agreement Change Request M-45-02-03. Cost and schedule performance and the critical path schedule were also provided.

No significant regulatory issues/concerns resulting in follow-on actions were identified. Presentation attached.

M-043-00, Tank Farm Upgrades

Start: 09:39 a.m.  
End: 09:47 a.m.

Tri-Party Agreement Milestone M-043-16, *Start Construction Upgrades in the Fifth Tank Farm*, due June 30, 2003, was completed and submitted on April 24, 2003. Discussions and negotiations continue on closure of Tri-Party Agreement Milestone M-043-00.

No significant regulatory issues/concerns resulting in follow-on actions were identified. Presentation attached.

M-046-00, Double Shell Tank Space Evaluation

Start: 09:47 a.m.  
End: 09:53 a.m.

Workscope is on schedule. Ecology has requested a plan for implementing the double-shell tank (DST) space savings options by May 23, 2003. Clarification discussions continue so the workscope is accomplished to all parties satisfaction. Next deliverable is on schedule for completion by the September 30, 2003 due date (Tri-Party Agreement Milestone M-046-01I).

No significant regulatory issues/concerns resulting in follow-on actions were identified. Presentation attached.

DST Space Optimization

Start: 09:53 a.m.  
End: 09:57 a.m.

Background for the DST Space Optimization was requested by Ecology and is attached.

No significant regulatory issues/concerns resulting in follow-on actions were identified. Presentation attached.

M-047-00, Tank Waste Treatment, Storage and Disposal Facilities

Start: 9:57 a.m.  
End: 10:10 a.m.

Deferred installation of 241-AZ-101 transfer pump is technically prudent but many not be consistent with expectations for Tri-Party Agreement Milestone M-047-03A. A briefing package was prepared to address Ecology questions. A draft Tri-Party Agreement Change Request was prepared by CHG/ORP and part of the M-062-03-01 change request.

No significant regulatory issues/concerns resulting in follow-on actions were identified. Presentation attached.

Interim Stabilization (Consent Decree)

Start: 9:15 a.m.  
End: 9:27 a.m.

Although slightly behind schedule, Consent Decree Target D-001-00V, Reduce Total Liquids to 2 percent of Total Volume from SSTs, will be completed on schedule.

- Consent Decree Target D-001-08-T01, due February 28, 2003, *Complete pumping of SX-104, SX-103, SX-101, and U-106*, was completed May 13, 2003. The delay in completion was due to pump failures and other technical difficulties.
- Consent Decree Target D-001-09-T01, *Complete pumping of BY-105 and BY-106*, may not be met on schedule. Tank 241-BY-105 was interim stabilized; Tank 241-BY-106 has approximately 15,000 gallons of pumpable liquid remaining. The current forecast for completion of pumping is mid-July 2003. The tank has not been pumped since March 31, 2003, due to a failed valve in the 244-BX double-contained receiver tank transfer line to the AP Farm that prevents emptying the tank. Tank 241-BY-106 cannot be pumped until the DCRT waste is transferred. An alternate route to another AP Farm tanks is being readied for the transfer, which should occur by the end of May 2003.
- Consent Decree Target D-001-11-T01, *Complete Pumping of U-108, U-107, S-111, and SX-102*, will not be met based on the Pumpable liquid remaining in tanks U-108 and S-111. Current projects for completion of pumping for these two tanks show the two tanks pumping into FY 2004. These will be the last two tanks to be interim stabilized, but completion of pumping is expected well before the required milestone completion date of September 30, 2004.

Pumping progress is behind projected target volumes. Improved pumping efficiencies in April is a result of the improvements made in February and March, Projected volumes based on the draft of Revision 5 of HNF-2978 and deletion of tanks S-102 and S-112 show that D-001-004 will be met before September 30, 2003.

Action: Provide draft HNF-2978, Revision 5 to Ecology  
Actionee: Andy Stevens

M-045-00, SST Closure

Start: 9:27 a.m.

End: 10:23 a.m.

No significant regulatory issues/concerns resulting in follow-on actions were identified. Presentation attached.

M-045-50, 60 SST Corrective Actions

Start: 10:17 a.m.

End: 10:21 a.m.

As of April 30, 2003, the first characterization borehole was decommissioned. The drill rig is advancing casing at the second borehole. Currently, casing has been advanced to a depth of 101 feet, with a total of 14 samples collected. The second borehole is located near 241-T-016, approximately 12 feet from the GAO Borehole reported in 1998. The C and A/AX Subsurface Conditions Description Report was completed in March 2003. The U Farm Subsurface Conditions Description Report was completed in May 2003. Copies of both reports will be provided to Ecology. Ecology and ORP met in April 2003, to revise the M-045, -050 and -060 series milestones to reflect projected work for SST Farm vadose zone characterization. Discussions will continue.

No significant regulatory issues/concerns resulting in follow-on actions were identified. Presentation attached.

M-023, Tank Integrity and Monitoring

Start: 10:21 a.m.

End: 10:26 a.m.

Replacement of the liquid observation well (LOW) in TX-116 did not go as planned and the LOW was damaged. That LOW will be removed and a replacement installed in May 2003. However, with the work stoppage and wind shutdown for some of the crane work, this will slip into the first week of June. In addition, two LOW's will be installed at the same time in TX-116 to recover the schedule.

No significant regulatory issues/concerns resulting in follow-on actions were identified. Presentation attached.

M-048-00, DST Integrity Assessment Program

Start: 10:26 a.m.

End: 10:30 a.m.

Tri-Party Agreement Interim Milestone M-048-02, *Submit to Ecology a Report Assessing Technology Development*, due September 17, 2002 and every six months thereafter until equipment is deployed will be declared complete in September 2003. The SAFT/TSAFT equipment was successfully deployed in December 2003 and the last Ecology Technology Development Report was transmitted in early March 2003.

CHG notified RL in April 2003 that AY-101 is fit for storage and that they would like to remove ADH maximum storage height and place it in unrestricted storage. The most corroded and pitted part of tank 241-AY-101 is structurally sound. PNNL is performing an independent verification.

No significant regulatory issues/concerns resulting in follow-on actions were identified. Presentation attached.

M-045-11, Complete 244-AR Vault Interim Status Actions

Start: 9:11 a.m.  
End: 9:15 a.m.

Milestone is on schedule and will be completed by September 30, 2003, in accordance with the Tri-Party Agreement.

No significant regulatory issues/concerns resulting in follow-on actions were identified. Presentation attached.

In Tank Characterization and Summary

Start: 10:30 a.m.  
End: 10:34 a.m.

No LDR assessments have been conducted to date. Resources, cost and redundancy of some assessments continue to be discussed between Ecology and ORP.

No significant regulatory issues/concerns resulting in follow-on actions were identified. Presentation attached.

M-090-00, Complete Acquisition of Facilities for Interim Storage of IHLW and Storage/Disposal of ILAW and M-20 Part B Permits

Start: 10:38 a.m.  
End: 10:51 a.m.

Workscope is on schedule. The location of the Integrated Disposal Facility (IDF) near PUREX versus ERDF is under discussion with a decision expected in June/July.

No significant regulatory issues/concerns resulting in follow-on actions were identified. Presentation attached.

M-062, Complete Pretreatment Processing and Vitrification of Tank Wastes

Start: 10:51 a.m.  
End: 11:01 a.m.

Ecology questioned the realignment of M-062 milestones with the revised WTP schedule. Ecology asked that they be put back on to distribution of the WTP Monthly Progress Report. Tri-Party Agreement

Interim Milestone M-062-09, *Start (Hot) Decommissioning - Phase 1*, will not be completed as scheduled. Tri-Party Agreement milestones M-062 and M-092-05 are being discussed by the parties.

No significant regulatory issues/concerns resulting in follow-on actions were identified. Presentation attached.

M-092-05, Inclusion of Hanford Site Cs/Sr Treatment and/or Repackaging Parameters in DOE TWRS Phase II Request for Proposals

Start: 11:01 a.m.

End: 11:03 a.m.

DOE will not be issuing a Phase II request for proposal until the 2014 time frame.

No significant regulatory issues/concerns resulting in follow-on actions were identified. Presentation attached.

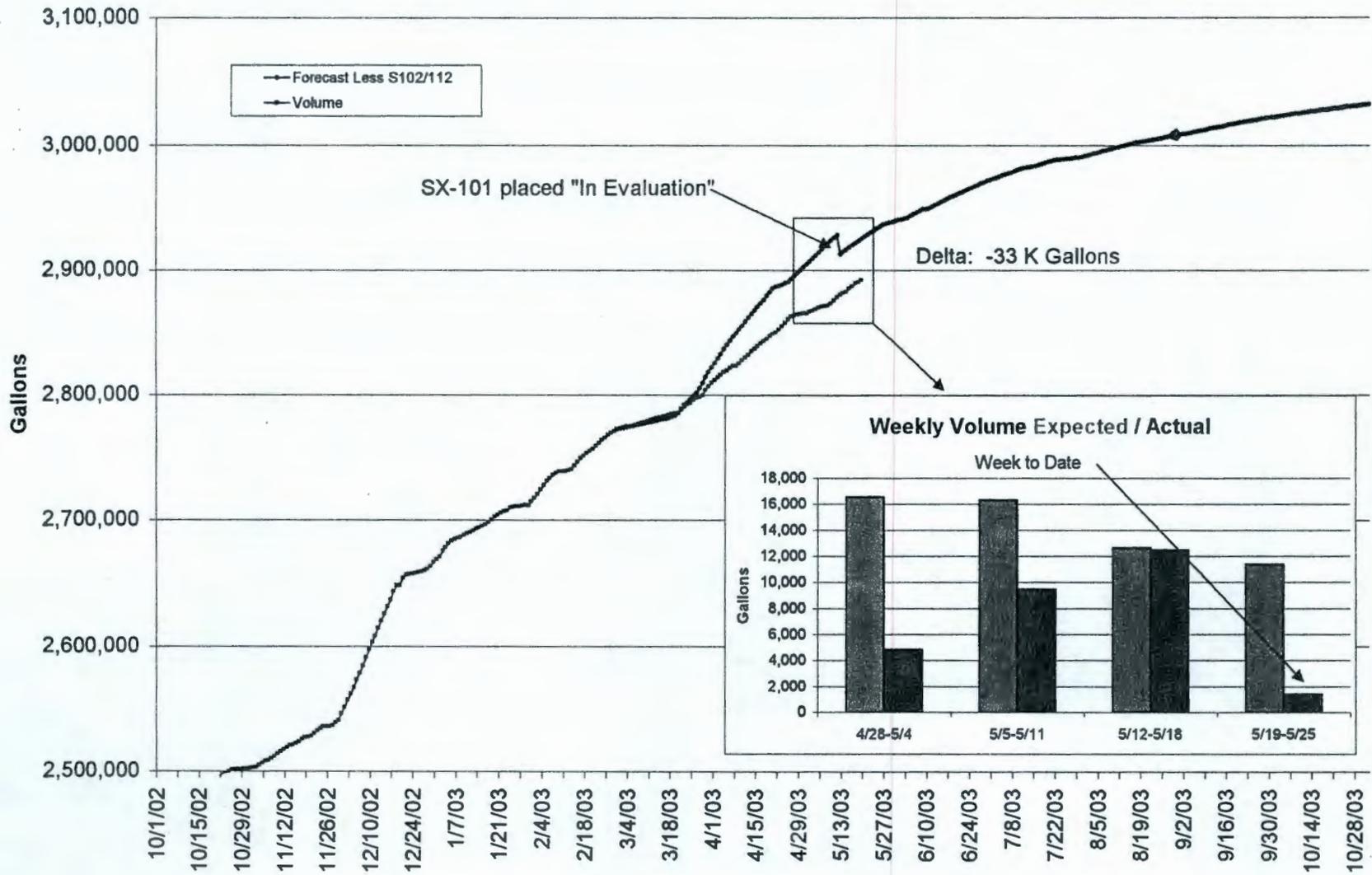
**ATTENDEES**  
**Office of River Protection**  
**Tri-Party Agreement Milestone Review**  
**May 20, 2003**

<u>NAME</u>	<u>ORGANIZATION</u>	<u>MAILSTOP</u>	<u>ATTACHMENTS</u>
Joel Heddon	RL		
JEFF HERTZEL	FH-TPA1		
EILEEN MURPHY-FITCH	FH-TPA1		
Woody Russell	DOE-ORP		
Sandra Fowler	CH2M Hill		
Andy Stevens	DOE-ORP		
Jim Rasmussen	DOE/ORP		
MIKE WILSON	ECOLOGIST		
Nick Ceto	EPA		
Gil Ramin	DOE-ORP		
ROBINSON	DOE-ORP		
Jane Hedges	Ecology		
Joy Turner	Ecology		
Jackie Hanson	ORP		
Diane Clark	ORP		
DENNINA HENRY	OREGON DEPT. OF ENERGY		
Jim Thompson	ORP		
Ron Skimmler	Ecology		
Barda Winters	ECY		
Deborah Singleton	Ecology		
Nancy Uziemblo	Ecology		
Richard Heggen	Ecology -		
Melinda Brown	Ecology		





### Volume Pumped as of 5/19/03



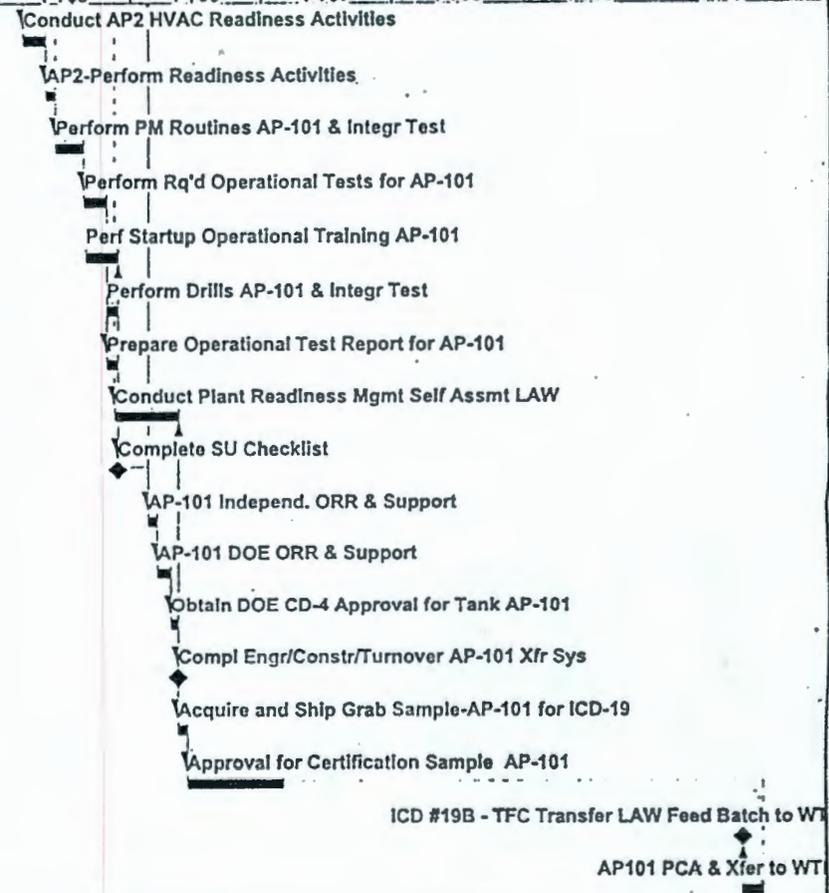
Activity ID	Cal ID	Orig Dur	Rem Dur	Early Start	Early Finish	Total Float	Fiscal Year										
							FY02	FY03	FY04	FY05	FY06	FY07	FY08	FY09	FY10		
TB12V45B	1	252	134	01OCT02A	30SEP03	249		Provide Eng & Dsn AP-101 Trans Pump Repl - FY03									
SW25P15167	1	20	30	19MAR03A	02MAY03	145		AP2-Complete Definitive Design									
SW25P1516Q	1	44	20	05MAY03	02JUN03	145		AP2-Review & Approve CD-3									
SW25P4510C	1	0	0		02JUN03	145		CD-3 Approval Phase 2 AP Farm Upgrades									
SW25P45108	1	253	253	11JUN03	10JUN04	145		AP2-Construction									
TB12V45Z2	1	253	253	01OCT03*	30SEP04	249		AW-102 Rigid Jmpr Chg-Engnrng & Dsn Services									
SW25P75110	1	191	191	02JAN04*	30SEP04	189		Startup & Testing (Cold)									
TB12V45Z3	1	123	123	05JAN04*	25JUN04	258		AW-102 Rigid Jumper Change - Work Pkg Preparatn									
TB12V45Z4	1	123	123	05JAN04*	25JUN04	258		AW-102 Rigid Jumper Change - Fabrication									
TB12V45H	1	20	20	22MAR04*	16APR04	264		Preinstallatn Test (ATP) of New Pump & Equipmnt									
SW25P95D	1	115	115	01APR04*	13SEP04	202		AP2-Develop POA/Notification Report/Fac. PRP									
TB12V45K	1	20	20	19APR04	14MAY04	264		Stage the New AP-101 Pump & Equip in the Field									
TD12V65A0	1	0	0		30APR04*	271		Design Turnover to Startup									
TD12V65A1	1	84	84	03MAY04	30AUG04	271		Prepare New Operating Procead AP-101 & Intg Tst									
TD12V65A2	1	84	84	03MAY04	30AUG04	271		Prepare New Maintenance Procedure AP-101									
TB12V45L	1	10	10	17MAY04	28MAY04	264		Install the New Xfer Pump & Mod Cvr Blk/Equipmnt									
TB12V44FM	2	0	0		28MAY04	391		AP-101 Retrieval Comp Construction									
TB12V45M	1	5	5	01JUN04	07JUN04	264		Conduct the Operations Tst Procead for AP-101 Pmp									
SW25P451A2	1	62	122	11JUN04	03DEC04	145		AP2-Construction									
TB12V45N	1	66	66	29JUN04	30SEP04	249		AP-101 Xfer Pump Replacement Project Closeout									
TB12V45Z5	1	58	58	12JUL04*	30SEP04	249		AW-102 Rigid Jumper Change - Field Installation									
TD15702F2	1	252	252	02AUG04*	01AUG05	158		Conduct Pre-Mgmt Self Assessments - LAW Feed									
TD12V72K	1	291	291	27SEP04	18NOV05	145		AP-101 Startup MSA									
TD12V60G	1	0	0		30SEP04	249		Complete SU Checklist									

Start Date 01OCT99  
 Finish Date 20MAR36  
 Data Date 24MAR03  
 Run Date 05MAY03 13:05

LAW6  
 CH2M Hill Hanford Group  
 FY03 Life Cycle Baseline  
 Critical Path to First LAW Transfer (TDIC1903P)  
 FY03 March LAW Status

Sheet 1 of 2  
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Activity ID	Cal ID	Orig Dur	Rem Dur	Early Start	Early Finish	Total Float	Fiscal Year														
							FY02	FY03	FY04	FY05	FY06	FY07	FY08	FY09	FY10						
SW25P95E	1	45	45	06DEC04	09FEB05	145															
SW25P97C	1	15	15	10FEB05	03MAR05	145															
TD12V65E	1	60	60	04MAR05	26MAY05	145															
TD12V65D2	1	42	42	27MAY05	27JUL05	145															
TD12V65B2	1	62	62	31MAY05	25AUG05	145															
TD12V65C	1	21	21	28JUL05	25AUG05	145															
TD12V65D3	1	21	21	28JUL05	25AUG05	145															
TD13B65C	1	120	120	19AUG05	10FEB06	145															
TD12V65G	1	0	0		25AUG05	145															
TD12V78K	1	15	15	21NOV05	13DEC05	145															
TD12V85K	1	25	25	14DEC05	20JAN06	145															
TD12V85D	1	15	15	23JAN06	10FEB06	145															
TD12V85DM	2	0	0		10FEB06	209															
CR10P69G53	1	16	16	13FEB06	07MAR06	145															
TD15V27A	2	270	270	08MAR06	02DEC06	206															
TDIC1903P	2	0	0	03JUN10		-1,122															
TD15V35K	2	61	61	03JUN10*	02AUG10	-1,122															



Start Date 01OCT99  
 Finish Date 20MAR36  
 Data Date 24MAR03  
 Run Date 05MAY03 13:05

LAW6  
 CH2M Hill Hanford Group  
 FY03 Life Cycle Baseline  
 Critical Path to First LAW Transfer (TDIC1903P)  
 FY03 March LAW Status

Sheet 2 of 2

Activity ID	Cal ID	Orig Dur	Rem Dur	Early Start	Early Finish	Total Float	Timeline											
							FY02	FY03	FY04	FY05	FY06	FY07	FY08	FY09	FY10			
TD16A38G	1	0	0		28MAY08	-679												Complete ABU Checklist AZ-101
TD16A65A00	1	0	0		28MAY08	-679												ISU Turnover to Integrated Testing
TD16A65E	1	60	60	29MAY08	21AUG08	-679												Perform PM Routines AZ-101 Integr Test
TD16A18K	1	120	120	20AUG08	11FEB09	-679												HLW Feed Startup MSA
TD16A65D2	1	42	42	22AUG08	21OCT08	-679												Perform Rq'd Op Tests for AZ-101 Integr Test
TD16A65B2	1	62	62	25AUG08	19NOV08	-679												Perf Startup Op Training AZ-101 Integr Test
TD16A65C	1	21	21	22OCT08	19NOV08	-679												Perform Drills AZ-101 Integr Test
TD16A65D3	1	21	21	22OCT08	19NOV08	-679												Prepare Op Test Report for AZ-101 Integr Test
TD16A65G	1	0	0		19NOV08	-679												Complete ABU Checklist AZ-101
TD16A40K	1	15	15	20NOV08	12DEC08	-679												AZ-101 Independ. ORR & Support
TD16A42K	1	25	25	15DEC08	21JAN09	-679												AZ-101 DOE ORR & Support
TD16A42D	1	15	15	22JAN09	11FEB09	-679												Obtain DOE CD-4 Approval for Tank AZ-101
TD16A64A	2	6	6	12FEB09	17FEB09	-986												Mix AZ-101 Waste to Suspend Solids
CR10Z11C3	1	20	20	18FEB09	17MAR09	-678												Acquire Core Sample-AZ-101 ICD-2
CR10Z11C3B	1	20	20	18MAR09	14APR09	-678												Extrusion and Packaging - AZ-101 ICD-2
CR10Z11CPL	2	7	7	15APR09	21APR09	-985												Ship Samples to WTC - AZ-101 ICD-2
TD16A27A	2	270	270	22APR09	16JAN10	-985												Approval of Certification Sample AZ-101
TDIC2003P	2	0	0	20JUL10		-1,169												ICD #20B Initiate Transfer 1st HLW Feed Batch
TD16010B	2	61	61	20JUL10*	18SEP10	-1,169												Xfr Wst: AZ-101 to WTC Facility

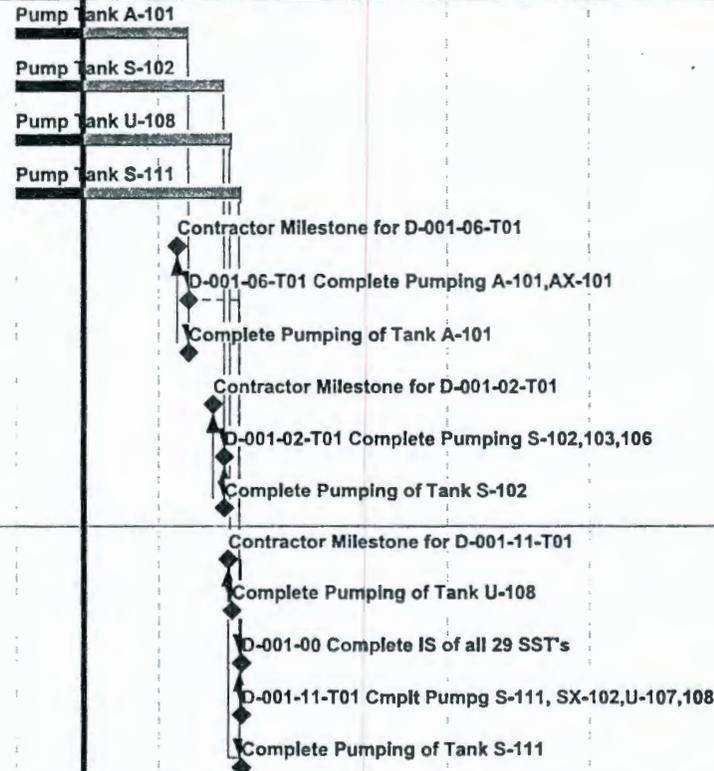
Start Date 01OCT99  
 Finish Date 20MAR36  
 Data Date 24MAR03  
 Run Date 05MAY03 13:00

HLW6

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CH2M Hill Hanford Group  
 FY03 Life Cycle Baseline  
 Critical Path to First HLW Transfer (TDIC2003P)  
 FY03 March HLW Status

Activity ID	Cal ID	Orig Dur	Rem Dur	Early Start	Early Finish	Total Float	FY02													
							FY02	FY03	FY04	FY05	FY06	FY07	FY08	FY09	FY10					
SS23172D14	2	365	267	01OCT02A	15DEC03	290		Pump Tank A-101												
SS23872D2	1	252	247	01OCT02A	15MAR04	140		Pump Tank S-102												
SS23X72D2	2	334	373	01OCT02A	30MAR04	184		Pump Tank U-108												
SS23G72D13	2	334	397	01OCT02A	23APR04	160		Pump Tank S-111												
SS23070P5X	2	0	0		15NOV03	290														
SS23070P5C	2	0	0		15DEC03	290														
SS23172DM	2	0	0		15DEC03	290														
SS23070P3X	2	0	0		14FEB04	199														
SS23070P3C	2	0	0		15MAR04	199														
SS23B72DM	2	0	0		15MAR04	199														
SS23070P8X	2	0	0		24MAR04	160														
SS23X72DM	2	0	0		30MAR04	184														
SS23070N6A	1	0	0		23APR04	111														
SS23070P8C	2	0	0		23APR04	160														
SS23G72DM	2	0	0		23APR04	160														



Start Date 01OCT99  
 Finish Date 20MAR36  
 Data Date 24MAR03  
 Run Date 05MAY03 13:39

D001  
 CH2M Hill Hanford Group  
 FY03 Life Cycle Baseline  
 Critical Path to D-001-00 (SS23070N6A)  
 FY03 March Status

Sheet 1 of 1

Activity ID	Cal ID	Orig Dur	Rem Dur	Early Start	Early Finish	Total Float														
							FY02	FY03	FY04	FY05	FY06	FY07	FY08	FY09	FY10					
SS23L72D2	2	151	30	01OCT02A	22APR03	-71		Pump Tank SX-103												
SS23J72D2	1	103	54	01OCT02A	06JUN03	-82		Pump Tank SX-101												
SS23L72DM	2	0	0		22APR03	-71		Complete Pumping of Tank SX-103												
SS23070P6X	2	0	0		07MAY03	-116		Contractor Milestone for D-001-08-T01												
SS23J72DM	2	0	0		06JUN03	-116		Complete Pumping Tank SX-101												
SS23070P6C	2	0	0		24JUN03	-116		D-001-08-T01 Cmplt Pumpg U-106, SX-101, 103, 105												

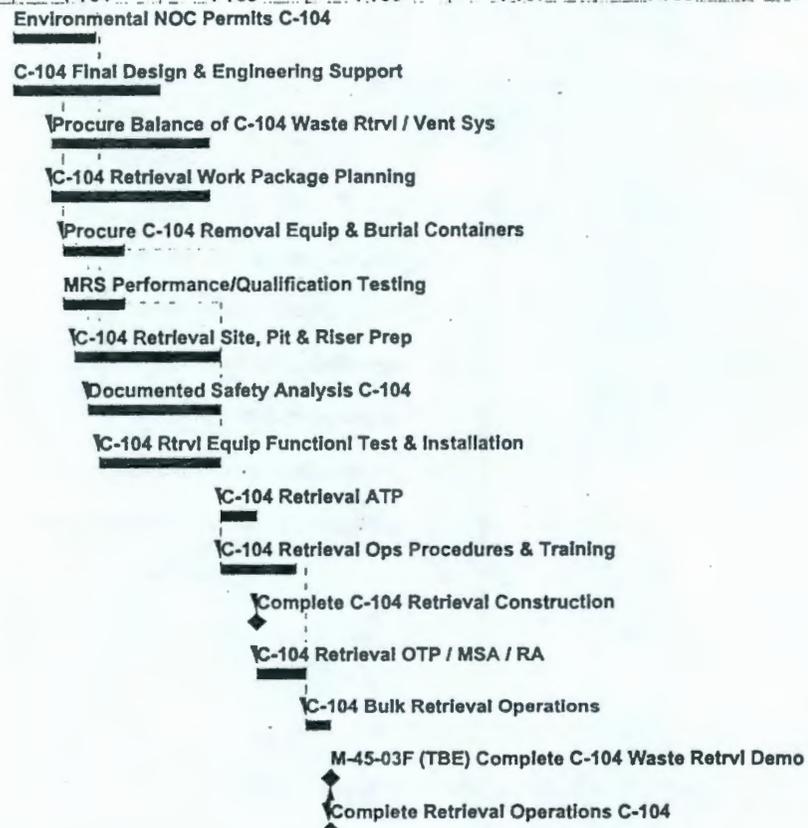
Start Date 01OCT99 D8T1  
 Finish Date 20MAR36  
 Data Date 24MAR03  
 Run Date 05MAY03 13:40

Sheet 1 of 1

CH2M Hill Hanford Group  
 FY03 Life Cycle Baseline  
 Critical Path to D-001-08-T01 (SS23070P6C)  
 FY03 March Status

Activity ID	Cal ID	Orig Dur	Rem Dur	Early Start	Early Finish	Total Float	Timeline													
							FY02	FY03	FY04	FY05	FY06	FY07	FY08	FY09	FY10					
TT28305C01	1	157	49	01OCT02A	30MAY03	439		Design S-112												
TTB5201A20	1	252	134	01OCT02A	30SEP03	370		Tank Farm Ops Data Packages												
TTB5201A30	1	252	134	01OCT02A	30SEP03	370		Supplemental Treatment Data Package												
TTB7112D01	1	66	49	02DEC02A	30MAY03	439		Procurement S-112												
TTB7112X52	1	24	55	04FEB03A	14AUG03	429		Tank S-112 Retrieval Equip PM's & Calibrations												
TTB7112X54	1	63	68	10FEB03A	26JUN03	478		Tank S-112 Retrieval Procedures & Training												
TTB7112E01	1	60	92	17MAR03A	14AUG03	429		Construction S-112												
TTB7112E04	1	0	0	24MAR03*		429		S-112 NOC Approved												
TTB7112E05	1	0	0	24MAR03*		434		S-112 Consent Decree Revised												
TTB7112G01	1	15	15	15AUG03	05SEP03	429		Startup/Test ATP & OTP S-112												
TTB7112X48	1	0	0		05SEP03	429		Complete Tank S-112 Retrieval Testing												
TTB7112X58	1	10	10	08SEP03	19SEP03	429		Tank S-112 Retrieval Operational Readiness												
TTB7112R01	2	25	25	20SEP03	14OCT03	624		S-112 Retrieval Operations												
TTB5201A25	1	62	62	01OCT03	31DEC03	370		Tank Farm Ops Data Packages												
TTB5201A35	1	62	62	01OCT03	31DEC03	370		Supplemental Treatment Data Package												
TTB711275	1	20	20	15OCT03	11NOV03	430		Sampling Collection												
TTB711276	1	20	20	15OCT03	11NOV03	430		Tank Volume Measurement & Equipment												
TTB5201A40	1	73	73	02JAN04	14APR04	370		EIS Public Comment Period (DOE/NEPA Contractor)												
TTB7112X62	2	65	65	10FEB04	14APR04	536		S-112 Retrieval Equipment Removal												
TT28305CA8	1	0	0		14APR04	370		M-45-03C Complete Saltcake Dissol Retrieval Demo												
TTB5201A50	1	0	0		14APR04	370		Issue/Publish EIS Record of Decision												
TTB7112X66	2	0	0		14APR04	536		Complete Initial Waste Retrieval S-112												

Activity ID	Cal ID	Orig Dur	Rem Dur	Early Start	Early Finish	Total Float														
							FY02	FY03	FY04	FY05	FY06	FY07	FY08	FY09	FY10					
TTB660412	1	141	141	01OCT03*	22APR04	6														
TTB660420	1	253	253	01OCT03*	30SEP04	0														
TTB660437	1	273	273	02JAN04	31JAN05	0														
TTB660440	1	273	273	02JAN04	31JAN05	0														
TTB660436	1	106	106	02FEB04	30JUN04	7														
TTB660457	1	106	106	02FEB04*	30JUN04	45														
TTB660442	1	252	252	01MAR04	28FEB05	0														
TTB660414	1	229	229	01APR04	28FEB05	0														
TTB660444	1	207	207	03MAY04	28FEB05	0														
TTB660446	1	65	65	01MAR05	31MAY05	0														
TTB660450	1	135	135	01MAR05	08SEP05	11														
TTB660448	1	0	0		31MAY05	0														
TTB660452	1	86	86	01JUN05	30SEP05	0														
TTB660460	2	59	59	03OCT05	30NOV05	0														
TT30J29AJP	2	0	0		30NOV05	0														
TTB660462	2	0	0		30NOV05	0														



Start Date 01OCT99  
 Finish Date 20MAR36  
 Data Date 24MAR03  
 Run Date 05MAY03 13:47

M45F

CH2M Hill Hanford Group  
 FY03 Life Cycle Baseline  
 Critical Path to M-045-03F (C-104 - TT30J29AJP)  
 FY03 March Status

Sheet 1 of 1

Activity ID	Cal ID	Orig Dur	Rem Dur	Early Start	Early Finish	Total Float	Timeline													
							FY02	FY03	FY04	FY05	FY06	FY07	FY08	FY09	FY10					
TTB5201A20	1	252	134	01OCT02A	30SEP03	621		Tank Farm Ops Data Packages												
TTB5201A30	1	252	134	01OCT02A	30SEP03	621		Supplemental Treatment Data Package												
TTB7102X50	1	90	175	02DEC02A	26NOV03	631		Tank S-102 Retrieval Readiness Prep/Verification												
TTB7102V20	1	66	49	24FEB03A	30MAY03	596		Design S-102												
TTB7102V22	1	66	66	24APR03	28JUL03	651		Procurement S-102												
TTB7102V46	1	0	0	01MAY03*		656		S-102 Consent Decree Revised												
TTB7102V40	1	40	40	06JUN03	01AUG03	596		Tank S-102 Retrieval Preparation Wk Pkg Planning												
TTB7102V42	1	60	60	07JUL03	29SEP03	611		Tank S-102 Retrieval Wk Pkg Planning												
TTB7102V43	1	30	30	14JUL03	22AUG03	596		Tank S-102 Retrieval Preparation Equip Removal												
TTB7102V30	1	72	72	25AUG03	05DEC03	596		Tank S-102 Retrieval Equipment Install												
TTB5201A25	1	62	62	01OCT03	31DEC03	621		Tank Farm Ops Data Packages												
TTB5201A35	1	62	62	01OCT03	31DEC03	621		Supplemental Treatment Data Package												
TTB7102X54	1	63	63	06OCT03	07JAN04	596		Tank S-102 Retrieval Procedures & Training												
TTB7102X52	1	40	40	09OCT03	05DEC03	596		Tank S-102 Retrieval Equip PM's & Calibrations												
TTB7102X46	1	20	20	08DEC03	07JAN04	596		Tank S-102 Retrieval OTP												
TTB5201A40	1	73	73	02JAN04	14APR04	621		EIS Public Comment Period (DOE/NEPA Contractor)												
TTB7102X48	1	0	0		07JAN04	596		M-45-05C Complete S-102 Retrieval Construction												
TTB7102X58	1	10	10	08JAN04	21JAN04	596		Tank S-102 Retrieval Operational Readiness												
TTB7102X60	2	56	56	22JAN04	17MAR04	862		S-102 Tank Retrieval Operations												
TTB5201A50	1	0	0		14APR04	621		Issue/Publish EIS Record of Decision												
TTB7102X62	2	65	65	20APR04	23JUN04	829		S-102 Retrieval Equipment Removal												
TTB7102X66	2	0	0		23JUN04	829		M-45-05A Complete Initial Waste Retrieval S-102												

Start Date 01OCT99  
 Finish Date 20MAR36  
 Data Date 24MAR03  
 Run Date 05MAY03 13:45

M45A  
 CH2M Hill Hanford Group  
 FY03 Life Cycle Baseline  
 Critical Path to M-045-05A (S-102 - TTB7102X66)  
 FY03 March Status

Sheet 1 of 1

Activity ID	Cal ID	Orig Dur	Rem Dur	Early Start	Early Finish	Total Float	FY02										FY03										FY04										FY05										FY06										FY07										FY08										FY09										FY10									
TO12D15R40	1	65	92	31DEC02A	31JUL03	85											E-525 Final Design (FY03)																																																																															
SW25P15167	1	20	30	19MAR03A	02MAY03	144											AP2-Complete Definitive Design																																																																															
SW25P1516Q	1	44	20	05MAY03	02JUN03	144											AP2-Review & Approve CD-3																																																																															
SW25P4510C	1	0	0		02JUN03	144											CD-3 Approval Phase 2 AP Farm Upgrades																																																																															
SW25P45108	1	253	253	11JUN03	10JUN04	144											AP2-Construction																																																																															
TO12D15R25	1	0	0	30JUN03*		108											Approve Performance Baseline																																																																															
TO12D15U1	1	64	64	01JUL03*	30SEP03	23											E-525 Construction Preparation (FY03)																																																																															
TO12D15RZZ	1	0	0		31JUL03	85											E-525 Final Design Complete																																																																															
TO12D15M1C	1	0	0	01OCT03		43											Approve Start of E-525 Construction																																																																															
TO12D15A1	1	253	253	01OCT03	30SEP04	43											E-525 204 AR Facility Transfer Line Const(04)																																																																															
TO12D15C1	1	253	253	01OCT03	30SEP04	43											E-525 Clean Out Box Modifications Const (04)																																																																															
TO12D15P1	1	253	253	01OCT03	30SEP04	43											E-525 PFP Line Isolation Const(04)																																																																															
TO12D15S1	1	253	253	01OCT03	30SEP04	43											E-525 SY Transfer Line Upgrades Const (04)																																																																															
TO12D15Z1	1	253	253	01OCT03	30SEP04	43											E-525AZ-151 Catch Tank Bypass Const (04)																																																																															
SW25P451A2	1	62	122	11JUN04	03DEC04	144											AP2-Construction																																																																															
TO12D15A5	1	145	145	01OCT04	29APR05	43											E-525 204 AR Facility Transfer Line Const (05)																																																																															
TO12D15C5	1	145	145	01OCT04	29APR05	43											E-525 Clean Out Box Modifications Const (05)																																																																															
TO12D15P5	1	145	145	01OCT04	29APR05	43											E-525 PFP Line Isolation Const(05)																																																																															
TO12D15S5	1	145	145	01OCT04	29APR05	43											E-525 SY Transfer Line Upgrades Const (05)																																																																															
TO12D15Z5	1	145	145	01OCT04	29APR05	43											E-525AZ-151 Catch Tank Bypass Const (05)																																																																															
SW25P4510M	1	0	0		03DEC04	144											Complete AP2 Farm Upgrades																																																																															
SW25100U1	1	84	84	01FEB05	31MAY05	22											Project Close-out/4-C's																																																																															
TO12D15UX	1	0	0		27MAY05	23											E-525 Construction Complete																																																																															
SW251001AS	1	0	0		31MAY05	22											M-43-00 Complete TF Upgrades																																																																															

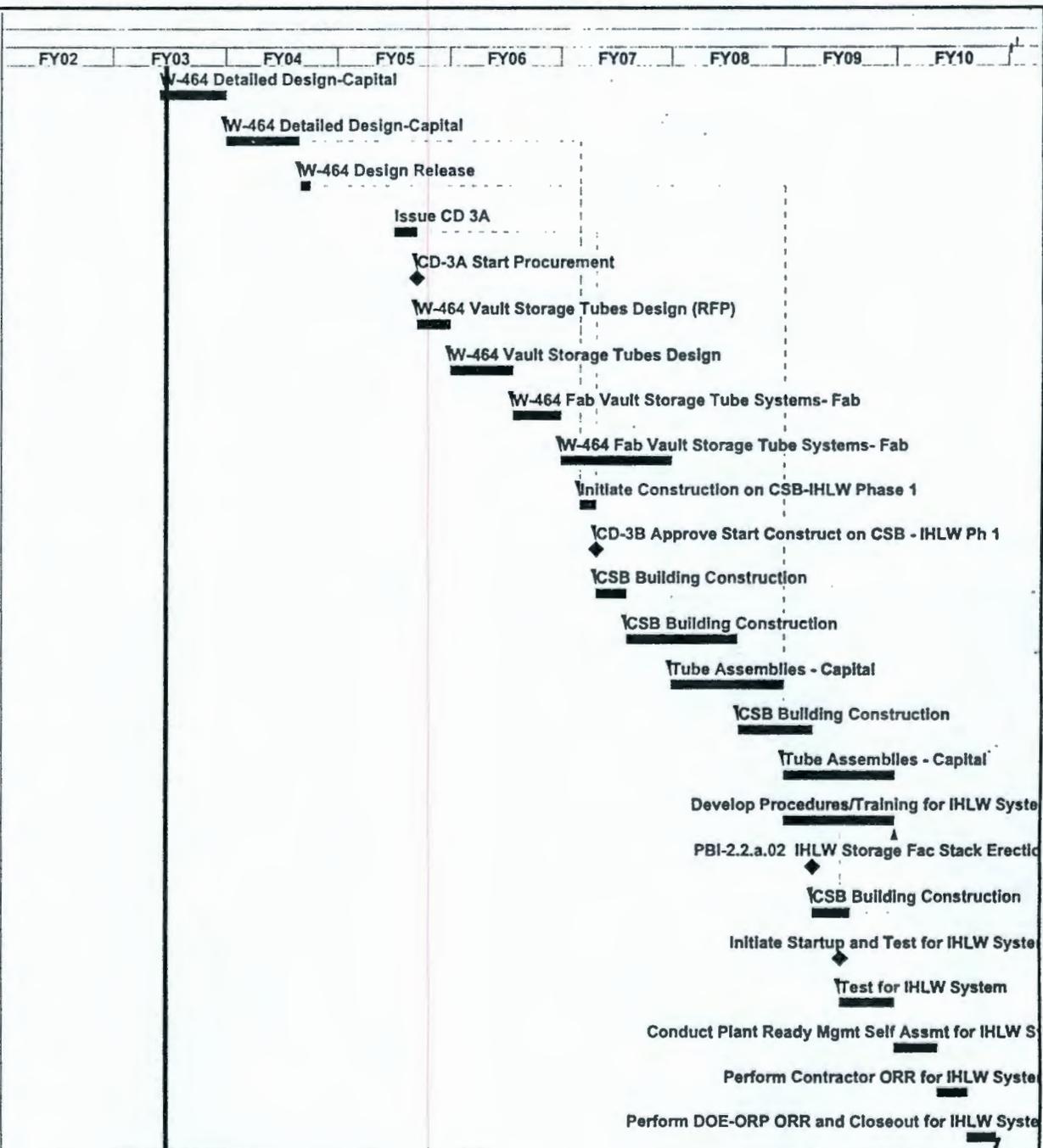
Start Date 01OCT99  
 Finish Date 20MAR36  
 Data Date 24MAR03  
 Run Date 05MAY03 13:42

M043

CH2M Hill Hanford Group  
 FY03 Life Cycle Baseline  
 Critical Path to M-043-00 (SW251001AS)  
 FY03 March Status

Sheet 1 of 1

Activity ID	Cal ID	Orig Dur	Rem Dur	Early Start	Early Finish	Total Float
TH44100B2	1	168	134	03MAR03A	30SEP03	-86
TH44100B2A	1	167	167	01OCT03	28MAY04	-86
TH44100B3B	1	22	22	01JUN04	30JUN04	-86
TH44090C0B	1	50	50	04APR05*	13JUN05	-295
TH44090C0A	1	0	0	14JUN05		-295
TH44090D1	1	77	77	14JUN05	30SEP05	-295
TH44090D1A	1	140	140	03OCT05	24APR06	-295
TH44090D2	1	111	111	25APR06	29SEP06	-295
TH44090D3	1	251	251	02OCT06	28SEP07	-295
TH44140A1A	1	34	34	01DEC06*	22JAN07	-192
TH44140A1B	1	0	0		22JAN07	-192
TH44140B1	1	73	73	23JAN07	04MAY07	-192
TH44140B2	1	251	251	07MAY07	02MAY08	-192
TH44140F1	1	253	253	01OCT07	30SEP08	-295
TH44140B2A	1	168	168	05MAY08	05JAN09	-192
TH44140F2	1	252	252	01OCT08	30SEP09	-295
TH45010A1	1	252	252	01OCT08	30SEP09	-295
TH44140B2M	2	0	0		05JAN09	-280
TH44140B2B	1	85	85	06JAN09	05MAY09	-192
TH45010A0A	1	0	0	03APR09		-295
TH45010A0B	1	126	126	03APR09	30SEP09	-295
TH45010B4	1	94	94	01OCT09	17FEB10	-295
TH45010C1	1	72	72	18FEB10	28MAY10	-295
TH45025A1A	1	65	65	01JUN10	31AUG10	-295



Start Date 01OCT99  
 Finish Date 20MAR36  
 Data Date 24MAR03  
 Run Date 05MAY03 13:02

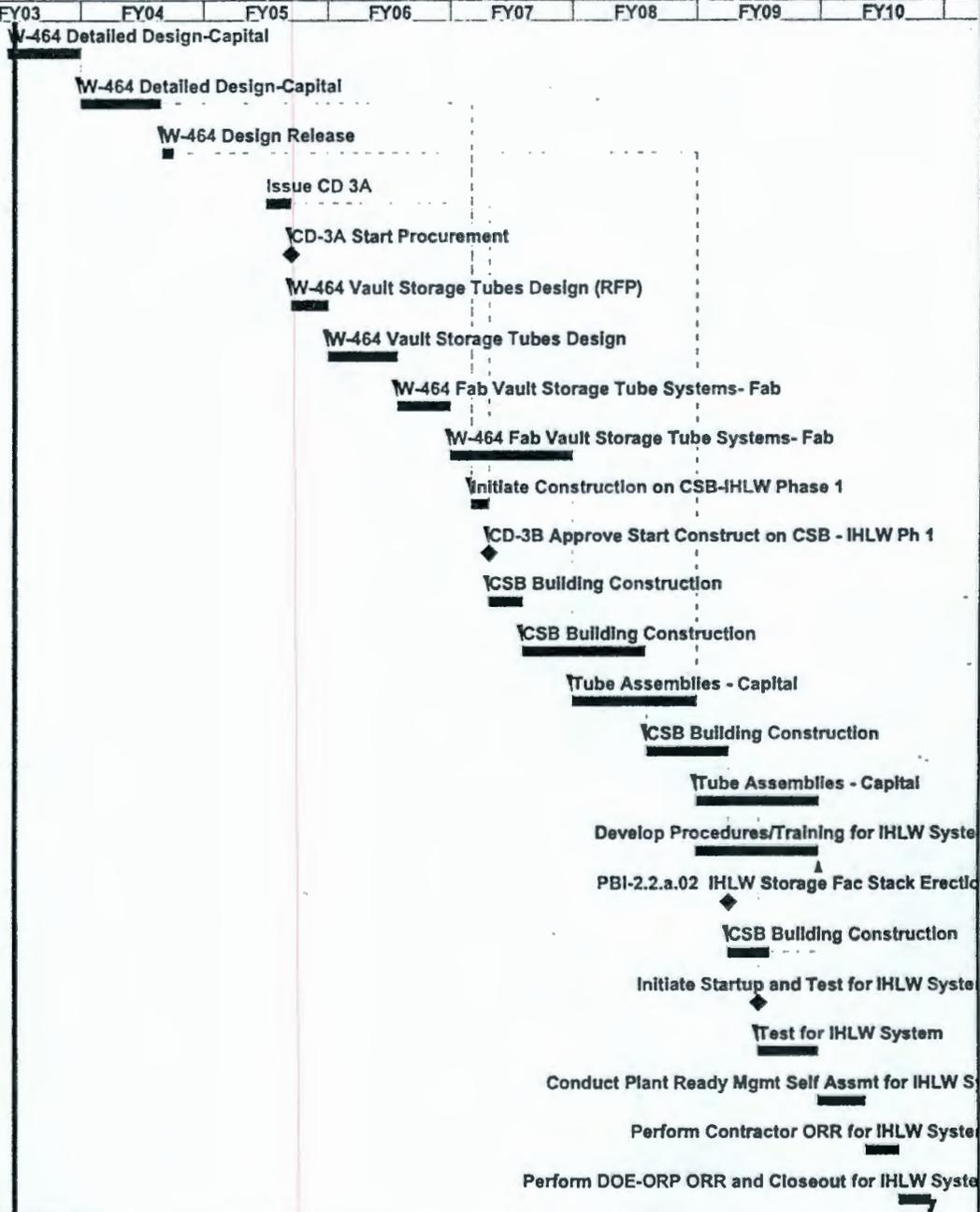
IMH6

CH2M Hill Hanford Group  
 FY03 Life Cycle Baseline  
 Critical Path to M-090-11 (TH45025A5A)  
 FY03 March IMH Status

Sheet 1 of 2



Activity ID	Cal ID	Orig Dur	Rem Dur	Early Start	Early Finish	Total Float	Timeline													
							FY02	FY03	FY04	FY05	FY06	FY07	FY08	FY09	FY10					
TH44100B2	1	168	134	03MAR03A	30SEP03	-86														
TH44100B2A	1	167	167	01OCT03	28MAY04	-86														
TH44100B3B	1	22	22	01JUN04	30JUN04	-86														
TH44090C0B	1	50	50	04APR05*	13JUN05	-295														
TH44090C0A	1	0	0	14JUN05		-295														
TH44090D1	1	77	77	14JUN05	30SEP05	-295														
TH44090D1A	1	140	140	03OCT05	24APR06	-295														
TH44090D2	1	111	111	25APR06	29SEP06	-295														
TH44090D3	1	251	251	02OCT06	28SEP07	-295														
TH44140A1A	1	34	34	01DEC06*	22JAN07	-192														
TH44140A1B	1	0	0		22JAN07	-192														
TH44140B1	1	73	73	23JAN07	04MAY07	-192														
TH44140B2	1	251	251	07MAY07	02MAY08	-192														
TH44140F1	1	253	253	01OCT07	30SEP08	-295														
TH44140B2A	1	168	168	05MAY08	05JAN09	-192														
TH44140F2	1	252	252	01OCT08	30SEP09	-295														
TH45010A1	1	252	252	01OCT08	30SEP09	-295														
TH44140B2M	2	0	0		05JAN09	-280														
TH44140B2B	1	85	85	06JAN09	05MAY09	-192														
TH45010A0A	1	0	0	03APR09		-295														
TH45010A0B	1	126	126	03APR09	30SEP09	-295														
TH45010B4	1	94	94	01OCT09	17FEB10	-295														
TH45010C1	1	72	72	18FEB10	28MAY10	-295														
TH45025A1A	1	65	65	01JUN10	31AUG10	-295														



Start Date 01OCT99  
 Finish Date 20MAR36  
 Data Date 24MAR03  
 Run Date 05MAY03 13:02

IMH6

CH2M Hill Hanford Group  
 FY03 Life Cycle Baseline  
 Critical Path to M-090-11 (TH45025A5A)  
 FY03 March IMH Status

Sheet 1 of 2



Activity ID	Cal ID	Orig Dur	Rem Dur	Early Start	Early Finish	Total Float	Timeline													
							FY02	FY03	FY04	FY05	FY06	FY07	FY08	FY09	FY10					
TL46220A1	1	134	49	07NOV02A	30MAY03	355		■												
TL46250D1	1	144	49	07JAN03A	30MAY03	231		■												
TL46220B1A	1	0	0		30MAY03	355														
TL46220A2	1	85	85	02JUN03	30SEP03	355		■												
TL46250D1C	1	85	85	02JUN03	30SEP03	231		■												
TL46250D2	1	189	189	01OCT03	30JUN04	231			■											
TL46250E7	1	252	252	01OCT03*	29SEP04	356				■										
TL46220B0	1	253	253	01OCT03	30SEP04	355				■										
TL46250E1	1	188	188	01JUL04	31MAR05	231					■									
TL46220B1B	1	0	0		30SEP04	355						■								
TL46240C0A	1	0	0	01OCT04		355							■							
TL46250D1M	1	0	0		31MAR05	231								■						
TL46240C1	1	128	128	01APR05	30SEP05	231									■					
TL46240C2	1	251	251	03OCT05	29SEP06	231										■				
TL47100C4	1	251	251	02OCT06	28SEP07	231											■			
TL47130A4M	1	0	0		28SEP07	231												■		
TLIC1503P	1	0	0		28SEP07	231													■	
TL47075A0A	1	0	0	01OCT07		231														■

Start Date 01OCT99  
 Finish Date 20MAR36  
 Data Date 24MAR03  
 Run Date 05MAY03 13:03

IML6  
 CH2M Hill Hanford Group  
 FY03 Life Cycle Baseline  
 Critical Path to M-090-10 (TL47075A0A)  
 FY03 March IML Status

Sheet 1 of 1

Activity ID	Cal ID	Orig Dur	Rem Dur	Early Start	Early Finish	Total Float	FY04	FY06	FY08	FY10	FY12	FY14	FY16	FY18	FY20	FY22	FY24	FY26	FY28	FY30	FY32	FY34	FY36		
TH57060A2	1	503	503	01OCT04*	29SEP06	4	Conceptual Design/Advanced Conceptual Design																		
TH57060A3	1	625	625	02OCT06	26MAR09	4	Prepare Preliminary/Detailed Design - Capital																		
TH57030A1	1	755	755	27MAR09	26MAR12	4	Maintain Technical Baseline - IHLW to RW																		
TH57070A1	1	755	755	27MAR09	26MAR12	4	Construction - Capital																		
TH57130A1	1	128	128	27MAR12	25SEP12	4	Prepare OTPs and ORR / Startup																		
TH57120A1	1	1,511	1,511	26SEP12	25SEP18	4	Perform Hot Operations																		
TH57120A3	1	1,512	1,512	26SEP18	25SEP24	4	Perform Hot Operations																		
TH57120A4	1	2,267	2,267	26SEP24	26SEP33	4	Perform Hot Operations																		
TH53150A1	1	502	502	27SEP33	24SEP35	4	Trans. IHLW Ship. Fac. to Other Gov. Agency																		
TH57120A2A	1	0	0		24SEP35	4	M-90-00: Comp Facilities-Waste Storage/Dispos																		

Start Date 01OCT99  
Finish Date 20MAR36  
Data Date 24MAR03  
Run Date 05MAY03 13:44

M090

Sheet 1 of 1

CH2M Hill Hanford Group  
FY03 Life Cycle Baseline  
Critical Path to M-090-00 (TH57120A2A)  
FY03 March Status

Activity ID	Cal ID	Orig Dur	Rem Dur	Early Start	Early Finish	Total Float	Fiscal Year											
							FY02	FY03	FY04	FY05	FY06	FY07	FY08	FY09	FY10			
TS24A62A30	1	114	134	28OCT02A	30SEP03	72		Fabricate 12" Riser Y-Adaptors (8ea)										
TS24C62AE4	1	43	24	18NOV02A	24APR03	26			C-105 - Fabricate Material/Equipment for Install									
TS24C62AJ4	1	47	24	18NOV02A	18JUN03	35			C-112 - Fabricate Material/Equipment for Install									
TS24T62AN4	1	47	30	18NOV02A	26JUN03	26			TX-105 - Fabricate Material/Equipment for Instal									
TS24T62AN2	1	34	24	11MAR03A	18JUN03	26			TX-105 - Prepare/Issue Work Package									
TS24S62AE2	1	34	15	17MAR03A	05JUN03	41			SX-111 - Prepare/Issue Work Package									
TS24C62AE2	1	34	24	24MAR03	24APR03	26			C-105 - Prepare/Issue Work Package									
TS24C62AE5	1	30	14	25APR03	14MAY03	26			C-105 - Perform Installation Activities									
TS24C62AJ2	1	34	24	15MAY03	18JUN03	35			C-112 - Prepare/Issue Work Package									
TS24S62AE5	1	30	14	13JUN03	02JUL03	41			SX-111 - Perform Installation Activities									
TS24C62AJ5	1	30	16	19JUN03	11JUL03	35			C-112 - Perform Installation Activities									
TS24T62AN5	1	30	19	27JUN03	24JUL03	26			TX-105 - Perform Installation Activities									
TS24A62MS4	2	0	0		24JUL03	38			CM for M-23-25D Complete Install of (4) LOWs									
TS24A62MSD	2	0	0		23AUG03	38			M-23-25D Complete Install of (4) LOWs									
TS24B62AA1	1	30	30	25AUG03	06OCT03	26			B-101 - Prepare/Issue ECN Design & USQ									
TS24B62AE1	1	30	30	25AUG03	06OCT03	26			B-109 - Prepare/Issue ECN Design & USQ									
TS24T62AK1	1	30	30	25AUG03	06OCT03	26			TX-103 - Prepare/Issue ECN Design & USQ									
TS24T62AM1	1	30	30	25AUG03	06OCT03	26			TX-104 - Prepare/Issue ECN Design & USQ									
TS24B62AA2	1	34	34	07OCT03	21NOV03	26			B-101 - Prepare/Issue Work Package									
TS24B62AE2	1	34	34	07OCT03	21NOV03	26			B-109 - Prepare/Issue Work Package									
TS24T62AK2	1	34	34	07OCT03	21NOV03	26			TX-103 - Prepare/Issue Work Package									
TS24T62AM2	1	34	34	07OCT03	21NOV03	26			TX-104 - Prepare/Issue Work Package									
TS24B62AA4	1	42	42	07OCT03	05DEC03	26			B-101 - Fabricate Material/Equipment for Install									
TS24B62AE4	1	42	42	07OCT03	05DEC03	26			B-109 - Fabricate Material/Equipment for Install									

Start Date 01OCT99  
 Finish Date 20MAR36  
 Data Date 24MAR03  
 Run Date 05MAY03 13:41

M023

CH2M Hill Hanford Group  
 FY03 Life Cycle Baseline  
 Critical Path to M-023-25G (TS24A62MSG)  
 FY03 March Status

Sheet 1 of 3

Activity ID	Cal ID	Orig Dur	Rem Dur	Early Start	Early Finish	Total Float	Fiscal Year													
							FY02	FY03	FY04	FY05	FY06	FY07	FY08	FY09	FY10					
TS24T62AK4	1	42	42	07OCT03	05DEC03	26														
TS24T62AM4	1	42	42	07OCT03	05DEC03	26														
TS24B62AA5	1	30	30	08DEC03	21JAN04	26														
TS24B62AE5	1	30	30	08DEC03	21JAN04	26														
TS24T62AK5	1	30	30	08DEC03	21JAN04	26														
TS24T62AM5	1	30	30	08DEC03	21JAN04	26														
TS24A62MS5	2	0	0		21JAN04	39														
TS24A62MSF	2	0	0		21FEB04	39														
TS24C62AB1	1	30	30	23FEB04	02APR04	28														
TS24C62AC1	1	30	30	23FEB04	02APR04	28														
TS24S62AF1	1	30	30	23FEB04	02APR04	28														
TS24T62AA1	1	30	30	23FEB04	02APR04	28														
TS24C62AB2	1	34	34	05APR04	20MAY04	28														
TS24C62AC2	1	34	34	05APR04	20MAY04	28														
TS24S62AF2	1	34	34	05APR04	20MAY04	28														
TS24T62AA2	1	34	34	05APR04	20MAY04	28														
TS24C62AB4	1	47	47	05APR04	09JUN04	28														
TS24C62AC4	1	47	47	05APR04	09JUN04	28														
TS24S62AF4	1	47	47	05APR04	09JUN04	28														
TS24T62AA4	1	47	47	05APR04	09JUN04	28														
TS24C62AB5	1	30	30	10JUN04	22JUL04	28														
TS24C62AC5	1	30	30	10JUN04	22JUL04	28														
TS24S62AF5	1	30	30	10JUN04	22JUL04	28														
TS24T62AA5	1	30	30	10JUN04	22JUL04	28														

Start Date 01OCT99  
 Finish Date 20MAR36  
 Data Date 24MAR03  
 Run Date 05MAY03 13:41

M023

CH2M Hill Hanford Group  
 FY03 Life Cycle Baseline  
 Critical Path to M-023-25G (TS24A62MSG)  
 FY03 March Status

Sheet 2 of 3

Activity ID	Cal ID	Orig Dur	Rem Dur	Early Start	Early Finish	Total Float	h													
							FY02	FY03	FY04	FY05	FY06	FY07	FY08	FY09	FY10					
TS24A62MS6	2	0	0		22JUL04	40														
TS24A62MSG	2	0	0		21AUG04	40														

CM for M-23-25G Complete Install of (4) LOWs

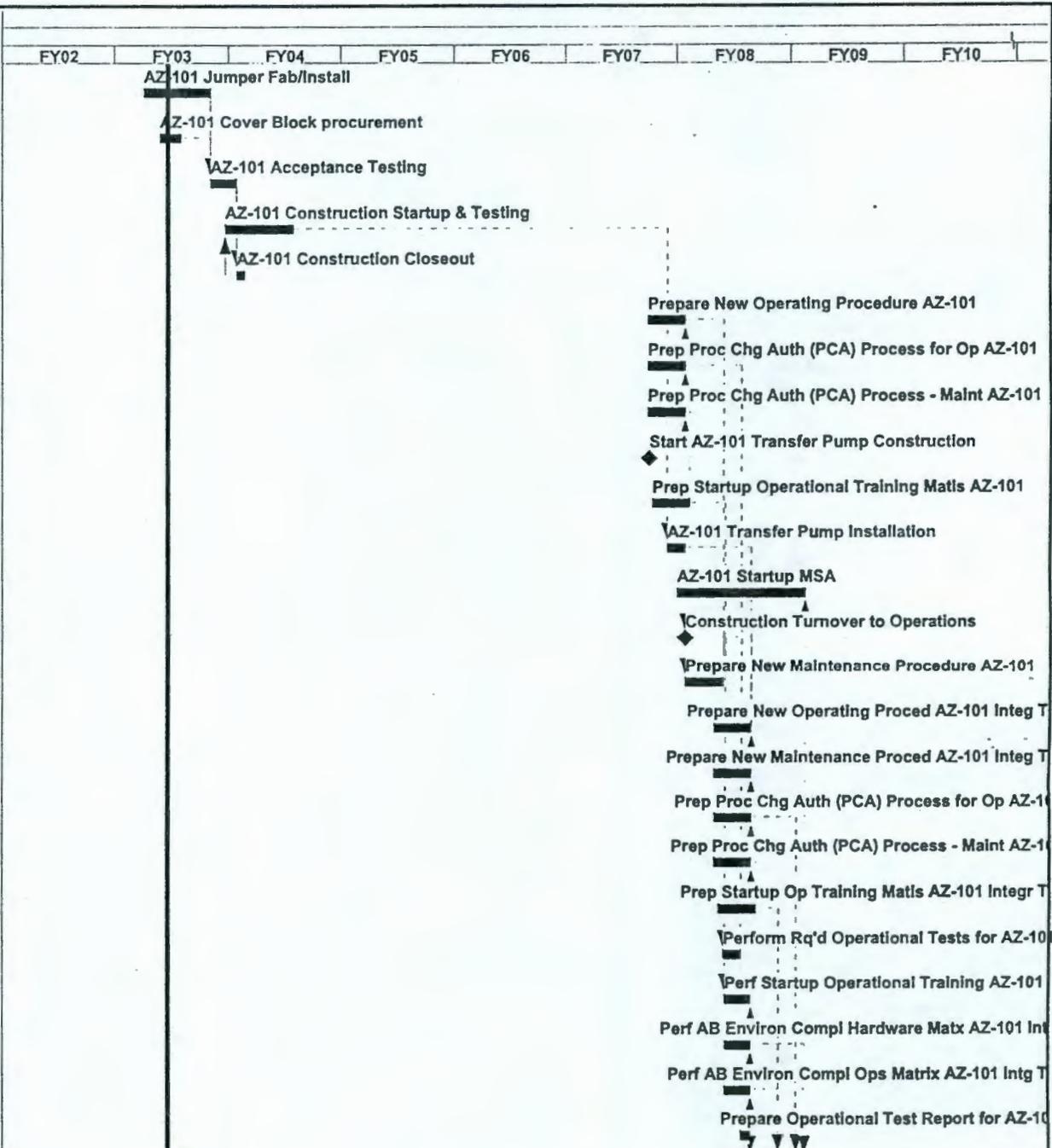
M-23-25G Complete Install of (4) LOWs

Start Date 01OCT99 M023  
 Finish Date 20MAR36  
 Data Date 24MAR03  
 Run Date 05MAY03 13:41

CH2M Hill Hanford Group  
 FY03 Life Cycle Baseline  
 Critical Path to M-023-25G (TS24A62MSG)  
 FY03 March Status

Sheet 3 of 3

Activity ID	Cal ID	Orig Dur	Rem Dur	Early Start	Early Finish	Total Float
TB16A36A53	1	64	49	03JAN03A	07AUG03	163
TB16A34A41	1	48	28	24FEB03A	30APR03	232
TB16A36A55	1	56	56	08AUG03	27OCT03	163
TB16A36A51	1	149	149	24SEP03	27APR04	163
TB16A36A56	1	20	20	28OCT03	24NOV03	163
TD16A38A1	1	84	84	28JUN07*	25OCT07	-595
TD16A38A3	1	84	84	28JUN07	25OCT07	-604
TD16A38A4	1	84	84	28JUN07	25OCT07	-604
TB16A36M02	1	0	0	02JUL07*		-679
TD16A38B1	1	84	84	13JUL07	08NOV07	-604
TB16A36A43	1	40	40	30AUG07	25OCT07	-679
TD16A83K	1	291	291	27SEP07	19NOV08	-679
TD16A38A00	1	0	0		25OCT07*	-604
TD16A38A2	1	84	84	26OCT07	28FEB08	-679
TD16A65A1	1	84	84	30JAN08	28MAY08	-679
TD16A65A2	1	84	84	30JAN08	28MAY08	-679
TD16A65A3	1	84	84	30JAN08	28MAY08	-679
TD16A65A4	1	84	84	30JAN08	28MAY08	-679
TD16A65B1	1	84	84	13FEB08	11JUN08	-628
TD16A38D2	1	42	42	29FEB08	28APR08	-679
TD16A38B2	1	62	62	03MAR08	28MAY08	-679
TD16A65F1	1	62	62	03MAR08	28MAY08	-556
TD16A65F2	1	62	62	03MAR08	28MAY08	-556
TD16A38D3	1	21	21	29APR08	28MAY08	-679



Start Date 01OCT99  
 Finish Date 20MAR36  
 Data Date 24MAR03  
 Run Date 05MAY03 13:00

HLW6

Sheet 1 of 2

CH2M Hill Hanford Group  
 FY03 Life Cycle Baseline  
 Critical Path to First HLW Transfer (TDIC2003P)  
 FY03 March HLW Status

Office of River Protection

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Tri-Party Agreement  
Quarterly Milestone Review



U.S. Department of Energy  
U.S. Environmental Protection Agency  
Washington State Department of Ecology

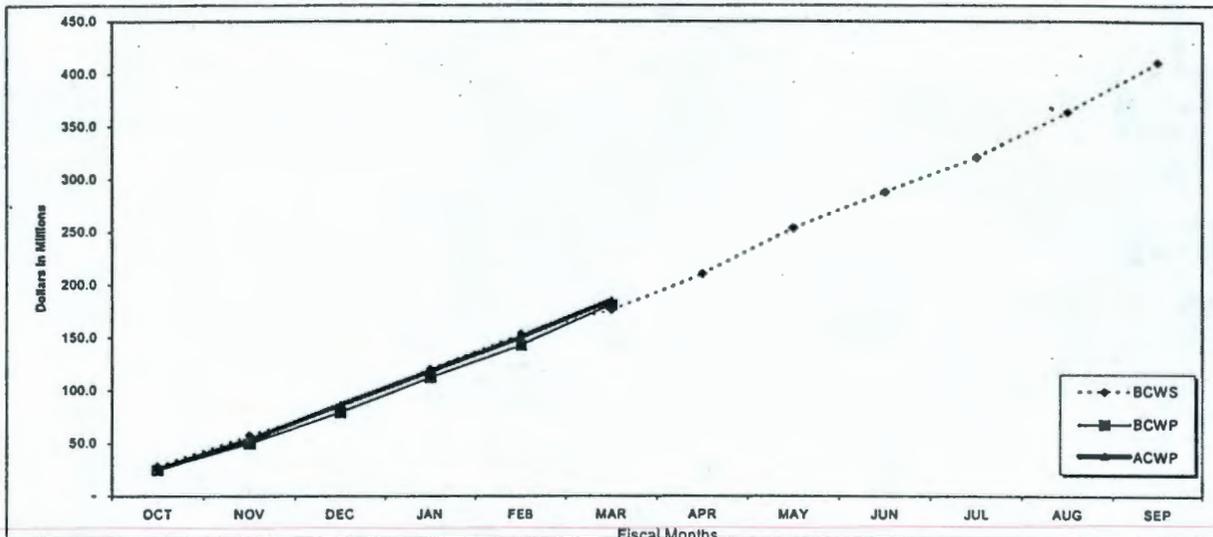
May 20, 2003

**Agenda**  
 Office of River Protection  
 Tri-Party Agreement Quarterly Milestone Review  
 May 20, 2003  
 EPA Conference Room  
 712 Swift Blvd., Suite 5  
 9:00 a.m. – 12:00 p.m.

Topic	Leads	Time
• FY 2003 ORP TPA Cost & Schedule Performance (CHG) and TPA Milestone Statistics	Jim Rasmussen/ Diane Clark/ Suzanne Dahl/ Jeff Lyon	9:00
• M-45-11, Complete 244-AR Vault Interim Status Actions	Delmar Noyes/ Gil Ramin/ Jeff Lyon	9:10
• Interim Stabilization (Consent Decree)	Delmar Noyes/ Andy Stevens/ Nancy Uziemblo	9:20
• M-45-00, Single-Shell Tank Closure	Delmar Noyes/ Andy Stevens/Dick Heggen	9:30
• M-43-00, Tank Farm Upgrades	Delmar Noyes/ Cathy Louie/ Stephen Lijek	9:40
• M-46-00, Double-Shell Tank Space Evaluation	Delmar Noyes/ Cathy Louie / Jeff Lyon	9:50
• DST Space Optimization	Delmar Noyes/ Cathy Louie/ Jeff Lyon	10:00
• M-47-00, Tank Waste Treatment, Storage and Disposal Facilities	Delmar Noyes/ Cathy Louie /Jim Davis/ Steve Lijek	10:05
• M-45-50, 60 Single-Shell Tank Corrective Action	Delmar Noyes/ Rob Yasek/ Joe Caggiano	10:15
• M-23, Tank Integrity and Monitoring	Delmar Noyes/ Billie Mauss/ Jeff Lyon	10:25
• M-48, DST Integrity Assessment Program	Delmar Noyes/ Billie Mauss/ Brenda Jentzen	10:35
• In Tank Characterization and Summary	Delmar Noyes/ Wen-Shou Liou / Debra Singleton	10:45
• M-90-00, Complete Acquisition of Facilities for Interim Storage of IHLW and Storage/ Disposal of ILAW and M-20, Part B Permits	Delmar Noyes/ Phil LaMont/ Suzanne Dahl	10:50
• LDR Assessment Status	Jim Rasmussen/ Woody Russell/ Jeff Lyon	11:00
• BNI Cost & Schedule Performance	Bill Taylor/ Mark Ramsay/ Suzanne Dahl	11:05
• M-62, Complete Pretreatment Processing and Vitrification of Tank Wastes	Bill Taylor/ Mark Ramsay/ Suzanne Dahl	11:15
• M-92-05, Inclusion of Hanford Site Cs/Sr Treatment and/or Repackaging Parameters in DOE TWRS Phase II Request for Proposals	Bill Taylor/ Mark Ramsay/ Suzanne Dahl/ Jeff Lyon	11:25
• Review of new commitments and actions	Jim Rasmussen/ Diane Clark/ Jeff Lyon/ Suzanne Dahl	11:35

# Cost/Schedule Performance

CH2M HILL HANFORD GROUP, INC.  
 FY 2002 - ALL DIRECT FUNDED ACTIVITIES (CH2M HILL ONLY)



	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
<b>FY02 CURRENT APPROVED PERFORMANCE MEASUREMENT BASELINE</b>												
<b>CURRENT PERIOD</b>												
BCWS	28.5	29.3	27.3	35.3	33.3	22.4	34.3	43.6	34.2	33.3	42.3	47.5
BCWP	24.8	25.1	29.4	32.9	30.6	38.5						
ACWP	25.5	28.4	32.6	31.8	32.0	35.1						
<b>CUMULATIVE YEAR TO DATE</b>												
BCWS	28.5	57.8	85.1	120.4	153.7	176.1	210.4	254.0	288.2	321.5	363.8	411.3
BCWP	24.8	49.9	79.3	112.2	142.8	181.3						
ACWP	25.5	53.9	86.5	118.3	150.3	185.4						
SV %	-12.9%	-13.6%	-6.9%	-6.8%	-7.1%	3.0%						
CV %	-2.8%	-7.9%	-9.1%	-5.4%	-5.3%	-2.2%						

### TPA Milestone Statistics

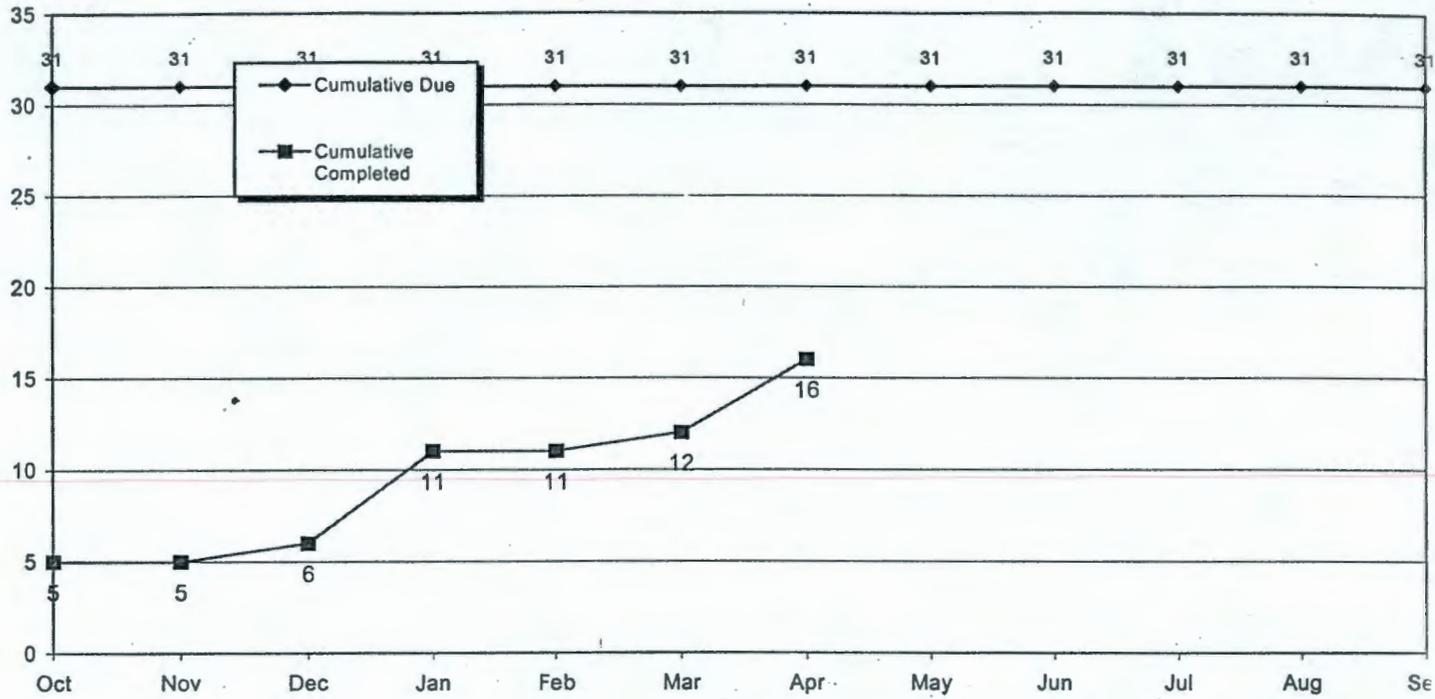
(Including target milestones)

Milestone	Due Date	Total Active as of 5/20/03	Milestone Number	Due Date	Milestone Number	Due Date
M-20-00, Submit Part B Permit Application on Closure/Post Closure Plans for all RCRA TSD Units	2/28/2004 (M-20-00)	2	M-20-56	6/30/03	M-20-57	6/30/03
M-23-25; Tank Integrity and Monitoring	9/30/2004 (M-23-25)	5	M-23-25D M-23-25E	9/30/03 9/30/03	M-23-25F M-23-25 M-23-25G	3/31/04 9/30/04 9/30/04
M-42-00, Provide Additional DST Capacity	TBD	1	M-42-00	TBD		
M-43-00, Complete Tank Farm Upgrades	6/30/2005 (M-43-00)	1	M-43-00	6/30/05		
M-45-00, Complete Closure of all SST Farms	9/30/2024 (M-45-00)	80	M-45-11	9/30/03	M-45-02Q	9/30/08
			M-45-02L	9/30/03	M-45-05F	9/30/08
			M-45-05K-T01	9/30/03	M-45-05-T06	9/30/08
			M-45-05L-T01	11/1/03	M-45-06E	12/31/08
			M-45-05M-T01	2/27/04	M-45-14-T01	6/30/09
			M-45-55	2/28/04	M-45-02R	9/30/09
			M-45-00C	2/28/04	M-45-05-T07	9/30/09
			M-45-05B	3/31/04	M-45-05G-T01	10/31/09
			M-45-03G	6/30/04	M-45-06-T20C	6/30/10
			M-45-06-T20	6/30/04	M-45-16	7/31/10
			M-45-02M	9/30/04	M-45-02S	9/30/10
			M-45-03E	9/30/04	M-45-05-T08	9/30/10
			M-45-03H	9/30/04	M-45-00D	6/30/11
			M-45-05N-T01	12/31/04	M-45-16-T01	7/31/11
			M-45-55-T03	1/31/05	M-45-02T	9/30/11
			M-45-06B	3/31/05	M-45-05-T09	9/30/11
			M-45-05-T17	4/30/05	M-45-06-T03	3/31/12
			M-45-02N	9/30/05	M-45-06-T20D	6/30/12
			M-45-03C	9/30/05	M-45-02U	9/30/12
			M-45-05C	11/30/05	M-45-05-T10	9/30/12
			M-45-06C	3/31/06	M-45-02V	9/30/13
			M-45-06-T20A	6/30/06	M-45-05-T11	9/30/13
			M-45-13	6/30/06	M-45-06-T04	3/31/14
			M-45-02O	9/30/06	M-45-06-T20E	6/30/14
			M-45-05A	9/30/06	M-45-02W	9/30/14
			M-45-03I	9/30/06	M-45-05-T12	9/30/14
			M-45-00B	9/30/06	M-45-02X	9/30/15
			M-45-05E	6/30/07	M-45-05-T13	9/30/15
			M-45-06D	6/30/07	M-45-06-T20F	6/30/16
			M-45-13-T01	6/30/07	M-45-02Y	9/30/16
			M-45-15	6/30/07	M-45-05-T14	9/30/16
			M-45-02P	9/30/07	M-45-02Z	9/30/17
			M-45-03F	9/30/07	M-45-05-T15	9/30/17
			M-45-05-T05	9/30/07	M-45-06-T20G	6/30/18
M-45-06-T20B	6/30/08	M-45-05	9/30/18			
M-45-14	6/30/08					
M-45-15-T01	6/30/08					

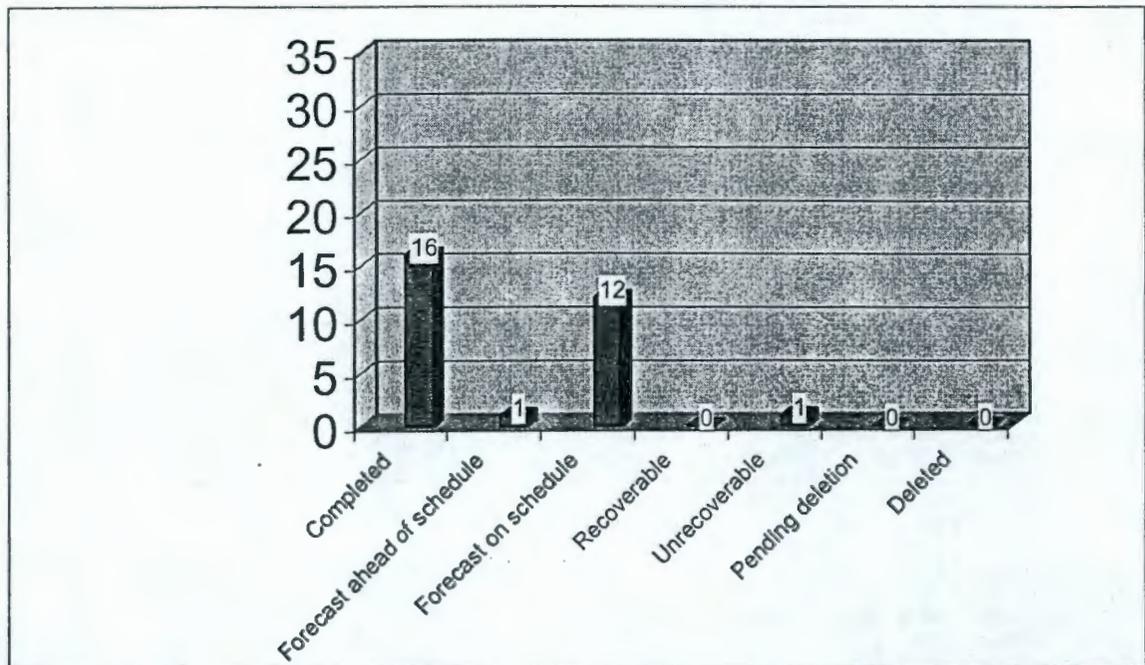
Milestone	Due Date	Total Active as of 5/20/03	Milestone Number	Due Date	Milestone Number	Due Date
M-45-00 cont.			M-45-06-T20J	6/30/20	M-45-60	TBD
			M-45-06-T20K	6/30/22	M-45-56	TBD
			M-45-06	9/30/24	M-45-58	TBD
			M-45-00	9/30/24	M45-59	TBD
M-46-00, Double Shell Tank Space Evaluation	11/30/2006 (M-46-01)	9	M-46-00J	9/30/03	M-46-01K	11/30/04
			M-46-01J	11/30/03	M-46-00L	9/30/05
			M-47-03	7/30/04	M-46-01L	11/30/05
			M-46-00K	9/30/04	M-45-21	12/31/05
					M-46-00M	9/30/06
				M-46-01M	11/30/06	
M-47-00, Complete All Work for Phase 1 Operations	2/28/2018 (M-47-00)	8	M-47-05	5/31/04	M-47-03A	2/28/07
			M-47-01	3/31/06	M-47-04	6/30/07
			M-47-05A	4/30/06	M-47-06	6/30/10
			M-47-02	3/31/07	M-47-00	2/28/18
M-50-00, Complete Pretreatment Processing of Hanford Tank Waste	12/31/2028 (M-50-00)	1	M-50-00	12/31/28		
M-51-00, Complete Vitrification of Hanford High Level Tank Waste	12/31/2028 (M-51-00)	1	M-51-00	12/31/28		
M-61-00* (alternate path), Complete Pretreatment & Immobilization of Hanford Low Activity Tank Waste	12/31/2028 (M-61-00)	1	M-61-00	12/31/28		
M-62-00, Complete Pretreatment Processing and Vitrification of Tank Wastes	12/31/2028 (M-62-00)	17	M-62-01G	7/31/03	M-62-01M	7/31/06
			M-62-07A	10/30/03	M-62-03	12/31/06
			M62-01H	1/31/04	M-62-09	12/31/07
			M-62-01I	7/31/04	M-62-10	1/31/11
			M-62-01J	1/31/05	M-62-11	1/31/14
			M-62-01K	7/31/05	M-62-00A	2/28/18
			M-62-08	7/31/05	M-62-00	12/31/28
			M-62-07B	11/30/05	M-62-12	TBD
			M-62-01L	1/31/06		
M-90-00, Interim Storage and Disposal of LAW and Interim Storage of HLW	TBD (M-90-00)	5	M-90-09-T01	5/30/03	M-90-10	8/31/08
			M-90-08	2/28/05	M-90-11	6/30/09
					M-90-00	TBD
M-92-05, Inclusion of Hanford Site Cs/Sr treatment and/or repackaging parameters in DOE TWRS Phase II request for proposals	6/30/2003 (M-92-05)	1	M-92-05	6/30/07		
M-48-00, DST Integrity Program, Submit Results of 4 DSTs not Previously Examined	9/30/2007	8	M-48-02F	3/31/03	M-48-13	9/30/05
			M-48-02G	9/30/03	M-48-14	3/31/06
			M-48-11	9/30/03	M-48-15	9/30/07
			M-48-12	9/30/04	M-48-00	9/30/07

Milestone	Due Date	Total Active as of 5/20/03	Milestone Number	Due Date	Milestone Number	Due Date
Interim Stabilization Consent Decree	9/30/2004 (D-001-00)	14	D-001-08-T01	2/28/03	D-001-06-T01	9/30/03
			D-001-09-T01	6/30/03	D-001-14-T01	12/30/03
			D-001-00-R17	7/31/03	D-001-00-R19	1/31/04
			D-001-11-T01	8/30/03	D-001-00-R20	4/30/04
			D-001-00-R18	10/31/03	D-001-00-R21	7/31/04
			D-001-13-T01	9/30/03	D-001-00	9/30/04
			D-001-00V	9/30/03	D-001-00-R22	10/31/04
			<b>Total Active Milestones:</b>		<b>145</b>	

### FY 2003 Milestone Plan



### FY 2003 MILESTONE PERFORMANCE



Fiscal Year 2003 Tri-Party Agreement Milestone Status

Milestone	Description	Due Date	Completed	Forecast		Recoverable	Unrecoverable	Pending Deletion	Deleted
				Ahead of Schedule	On Schedule				
D-001-00-R14	SUBMIT QUARTERLY REPORT FOR TANK STABILIZATION ACTIVITES	10/31/02	X						
M-045-05-T16	SUBMIT DOCUMENT: S-102 INITIAL WASTE RETRIEVAL FUNCTIONS & REQUIREMENTS	10/30/02	X						
D-001-13	INITIATE PUMPING OF TANKS U-111, S-109, S-112, S-101, AND S-107	11/30/02	X						
P-045-06A	SUBMIT SST SYSTEM CLOSURE PLAN & C-106 WASTE RETRIEVAL & CLOSURE REPORT	12/19/02	X						
M-062-06	START OF CONSTRUCTION - PHRASE I TREATMENT COMPLEX	12/31/02	X						
M-045-55-T02	SUBMIT SST WMA PHASE 1RFI/CMS WORK PLAN FOR WMA PHASE I	1/31/03	X						
M-062-01F	SUBMIT SEMI-ANNUAL PROJECT COMPLIANCE REPORT	1/31/03	X						
P-045-05I-T01	CONDUCT C-106 WASTE RETRIEVAL & CLOSURE DEMO PRODUCT 30% DESIGN CONSULTATION	1/31/03	X						
D-001-00-R15	SUBMIT QRTRLY REPORT FOR TANK STABILIZATION ACTIVITIES	1/31/03	X						
D-001-08-T01	COMPLETE PUMPING OF SX-105, SX-103, SX-101, AND U-106	2/28/03					X		
M-023-25C	COMPLETE INSTALLATION OF LOWs. BEGIN WEEKLY LIQUID OBSERVATION & MONITORING OF 4 SSTs	3/31/03	X						
(Ecology) M-046-01I	OBTAIN CONCURRENCE (BY TPA PARTIES) ON ADDITIONAL TANK ACQUISITION	4/30/03	X						
D-001-14	INITIATE PUMPING TANK C-103	4/30/03	X						
M-045-05J-T01	COMPLETE C-106 WASTE RETRIEVAL & CLOSURE DEMO PROJECT DESIGN	4/30/03	X						
M-045-05D	ESTABLISH COMPLETION DATE FOR SECOND TANK, INITIAL WASTE RETRIEVAL	4/30/03	X						
D-001-00-R16	SUBMIT QRTRLY REPORT FOR TANK STABILIZATION ACTIVITIES	4/30/03	X						

Milestone	Description	Due Date	Completed	Forecast		Recoverable	Unrecoverable	Pending Deletion	Deleted
				Ahead of Schedule	On Schedule				
M-45-03D	COMPLETE S-112 SALTCAKE WASTE RETRIEVAL TECH DEMO DESIGN	5/30/03			X				
M-090-09-T01	COMPLETE DETAILED DESIGN OF ILAW DISPOSAL FACILITY CRITICAL SYSTEMS TO 80%	5/30/03		X					
M-020-56	SUBMIT CANISTER STORAGE FACILITY PART B DANGEROUS WASTE PERMIT APPLICATION	6/30/03			X				
M-020-57	SUBMIT ILAW DISPOSAL FACILITY CERTIFIED PART B PERMIT APPLICATION	6/30/03			X				
M-043-16	START CONSTRUCTION UPGRADES IN 9 <sup>TH</sup> TANK FARM	6/30/03	X						
D-001-00-R17	SUBMIT QRTLTY REPORT ON TANK STABILIZATION	7/31/03			X				
M-061-01G	SUBMIT SEMI-ANNUAL PROJECT COMPLIANCE REPORT	7/31/03			X				
M-023-25D	COMPLETE INSTALLATION OF LOWs & BEGIN WEEKLY LIQUID OBSERVATION / MONITORING 4 SSTs	9/30/03			X				
M-023-25E	PROCEDURE NECESSARY EQUIP. TO SUPPORT ADDITIONAL LOW MONITORING SYSTEMS	9/30/03			X				
M-045-02L	SUBMIT ANNUAL UPDATE OF SST RETRIEVAL SEQUENCE DOC.	9/30/03			X				
M-045-11	COMPLETE 244-AR VAULT INTERIM STABILIZATION	9/30/03			X				
M-046-00J	COMPLETE ANNUAL DST SPACE EVALUATION REPORT	9/30/03			X				
M-048-11	SUBMIT RESULTS OF 4 DSTs NOT PRE. EXAMINED	9/30/03			X				
M-045-05K-T01	COMPLETE C-106 WASTE RETRIEVAL/CLOSURE DEMO PROJECT CONSTRUCTION	9/30/03			X				
<b>TOTAL</b>			<b>16</b>	<b>1</b>	<b>12</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>0</b>

**M-45-11, Complete 244-AR Vault Interim Status Actions****I. Near-Term Deliverables:**

- **M-45-11A, Complete 244-AR Vault Interim Stabilization**  
Due: 9/30/03  
Status: On schedule. Total float is +64 days to complete interim stabilization by the end of September 2003.

**II. Significant Accomplishments:**

- Completed 244-AR Readiness Assessment on April 8, 2003.
- Completed consolidation of Tanks 02, 03, 04, and Sump 3 waste into Tank 001 on April 18, 2003.

**III. Significant Planned Actions in the Next Six Months:**

- Transfer waste to AY-102 (4/21/03 - 6/4/03)
- Complete isolation intrusion (4/24/03 - 6/30/03)

**Near-term actions needed by DOE or Ecology**

- None

**II. Issues:**

- None

**III. Critical Path**

- None

## Interim Stabilization Consent Decree

### Near-Term Deliverables:

- Reduce Total Liquids to 2% of Total Volume from SSTs (D-001-00V)  
Due: 9/30/03  
Status: On schedule
- Complete Interim Stabilization of all 29 SSTs (D-001-00)  
Due: 9/30/04  
Status: On schedule

### Status:

- As of the end of April, ten (10) tanks were left to complete pumping – nine (9) which were pumped during the month of April. Two tanks (S-102 and S-112) are being removed from the Interim Stabilization scope to permit an accelerated retrieval.
- The replacement of the failed pump in SX-101 was completed, allowing resumption of pumping from that tank.
- The caustic treatment of the U Farm transfer line was completed and eliminated the restrictions on the pumping from the two remaining tanks in U Farm.
- Tank BY-105 is interim stabilized (letter being sent to Ecology). The approved Interim Stabilization Evaluation Form has been received by ORP.
- Tanks C-103 and U-111 completed pumping in March and are being evaluated by the Contractor for stabilization criteria. (Letters statusing C-103 and U-111 have been sent to Ecology.)
- Tank SX-103 continues to be evaluated by the Contractor for stabilization criteria.
- Over 140,000 gallons were pumped during the first quarter of 2003.
- Over 55,000 gallons were pumped in April 2003.
- Approximately 2.94 million gallons have been removed as of 4/30/03.

### Issues/Recovery:

- The Target Date of February 28, 2003, for Milestone D-001-08-T01, "Complete pumping of SX-105, SX-103, SX-101, and U-106," was not met. SX-101 had not completed pumping at that time due to pump failures and other technical difficulties. The pump was replaced and saltwell pumping resumed March 30, 2003. On May 13, 2003, evaluation of pumping and saltwell data showed that the tank has met interim stabilization criteria and the tank was placed in evaluation mode. Thus, this milestone is now complete.
- The Target Date of June 30, 2003, for Milestone D-001-09-T01, "Complete pumping of BY-105 and BY-106," will probably not be met. Tank BY-105 has been interim stabilized but tank BY-106 still has approximately 15,000 gallons of pumpable liquid remaining. The current forecast shows completion of pumping in mid-July 2003. The tank has not pumped since March 31, 2003, due to a failed valve in the 244-BX double-contained receiver tank transfer line to the AP Farm that prevents emptying the tank. Tank BY 106 cannot be pumped until the DCRT waste is transferred. An alternate route to another AP Farm tank is being readied for the transfer, which is scheduled to occur the week of

**Milestone M-45-00, Complete Closure of All Single-Shell Tank Farms****I. Near-Term Deliverables:**

- **M-45-00B, "Complete Near-Term SST Waste Retrieval Activities"**  
Due: 9/30/06  
Status: On schedule with respective supporting milestones as noted below.
- **M-45-02, "Submit Annual Updates to SST Retrieval Sequence Document"**  
Due: 9/30/02 (and annually thereafter)  
Status: Complete. The SST Retrieval Sequence and DST Space Evaluation combined into a single report, RPP-8554, Rev. 1, was issued by CHG to ORP on 9/23/02, and submitted to Ecology 9/30/02.
- **M-45-03D, "Complete S-112 Saltcake Waste Retrieval Technology Demonstration Design" (all physical systems including LDMM provisions)**  
Due: 5/31/03  
Status: On schedule. Design will be considered complete when 90% of the design has been approved for fabrication and/or construction. The 90% Design Review was completed and the design review report has been issued (RPP-14604).
- **M-45-00C, "Complete Renegotiation of Second Phase SST Waste Retrieval Activities" (September 30, 2006 through September 30, 2015)**  
Due: 2/28/04 (Negotiations will consider need for additional compliant tank space. WTP construction was not initiated by 12/31/2001, as defined by M-62-06. As a result, the due date for the M-45-00C milestone was automatically adjusted to 4/30/2002).  
Status: Tentative Agreement was reached on 8/15/02.
- **M-45-03G, "Complete C-104 Sludge/Hard Heel, Confined Sluicing and Robotic Technologies, Waste Retrieval Cold Demonstration"**  
Due: 6/30/04  
Status: On schedule. Performance testing of the MRS is complete.
- **M-45-03E, "Complete S-112 Saltcake Waste Retrieval Technology Demonstration Construction (all physical systems including LDMM provisions)"**  
Due: 9/30/04  
Status: On schedule
- **M-45-03H, "Complete C-104 Sludge/Hard Heel, Confined Sluicing and Robotic Technologies, Waste Retrieval Demonstration Design (all physical systems including LDMM provisions)"**  
Due: 9/30/04  
Status: On schedule. Advanced preliminary design is complete. Final design is on hold until FY04.

- **M-45-03C**, "Complete Full-Scale Saltcake Waste Retrieval Technology Demonstration at Tank S-112 (all physical systems including LDMM provisions)"  
Due: 9/30/05  
Status: On schedule.
- **M-45-05E**, "Complete Second Tank Initial Retrieval Project Design (all physical systems including LDMM provisions)"  
Due: 6/30/06  
Status: On schedule
- **M-45-05A**, "Complete Initial Waste Retrieval from SST S-102"  
Due: 9/30/06  
Status: On schedule
- **M-45-03I**, "Complete C-104 Sludge/Hard Heel, Confined Sluicing and Robotic Technologies, Waste Retrieval Demonstration Construction (all physical systems including LDMM provisions)"  
Due: 9/30/06  
Status: On schedule
- **M-45-05-T16**, "Submit to Ecology S-102 Initial Waste Retrieval Functions and Requirements (F&R) Document"  
Due: 10/30/02  
Status: Complete.
- **M-45-05B**, "Complete S-102 Initial Retrieval Project Design (all physical systems including LDMM provisions)"  
Due: 3/31/04  
Status: On schedule. Design will be performed in FY 2003.
- **M-45-05C**, "Complete S-102 Initial Waste Retrieval Project Construction (all physical systems including LDMM provisions)"  
Due: 11/30/05  
Status: On schedule
- **M-45-05D**, "Establish Completion Date for the Second Tank, Initial Waste Retrieval"  
Due: 12/31/02  
Status: **Complete**. Selection will be based on information in report RPP-8554, "Single-Shell Tank Retrieval Sequence and Double-Shell Tank Space Evaluation," prepared under M-45-02. This activity is also related to completing renegotiation of second phase SST waste retrieval activities under M-45-00C.

- **M-45-05F**, "Complete Second Tank Initial Waste Retrieval Project Construction (all physical systems including LDMM provisions)"  
Due: 9/30/08  
Status: On schedule.

The milestone due date will be based on information in report RPP-8554, "Single-Shell Tank Retrieval Sequence and Double-Shell Tank Space Evaluation," prepared under M-45-02 and will be supported by HTWOS model simulations. This activity is related to establishing a completion date for the second tank initial waste retrieval under M-45-05D.

- **M-45-05-T17**, "Submit Second Tank Initial Waste Retrieval Functions and Requirements (F&R) Document"  
Due: 4/30/04  
Status: On schedule.  
Selection will be based on information in report RPP-8554, "Single-Shell Tank Retrieval Sequence and Double-Shell Tank Space Evaluation," prepared under M-45-02. This activity is also related to completing renegotiation of second phase SST waste retrieval activities under M-45-00C.
- **M-45-06-T05**, "Submit Tank Farm Closure/Post-Closure Work Plan Update"  
Due: 6/30/02  
Status: Complete. Ecology comments expected by August 27, 2002, will be resolved and incorporated into the next overall closure document and individual tank plans.
- **M-45-06-T06**, "Submit Tank Farm Closure/Post Closure Work Plan Update"  
Due: 6/30/04  
Status: On schedule
- **M-45-06-T07**, "Submit Tank Farm Closure/Post Closure Work Plan Update"  
Due: 6/30/06 (and every two years thereafter)  
Status: On schedule

#### HIGH RISK WASTE RETRIEVAL AND CLOSURE DEMONSTRATION PROJECTS

- **M-45-13**, "Interim Completion of Tank S-112 Waste Retrieval and Closure Demonstration Project"  
Due: 6/30/06  
Status: On schedule
- **M-45-13-T01**, "Final Completion of Tank S-112 SST Retrieval and Closure Demonstration Project"  
Due: 6/30/07  
Status: On schedule
- **M-45-14**, "Interim Completion of Tank C-104 SST Waste Retrieval and Closure Demonstration Project"  
Due: 6/30/08  
Status: On schedule

- **M-45-14-T01**, "Final Completion of Tank C-104 SST Retrieval and Closure Demonstration Project"  
Due: 6/30/09  
Status: On schedule
- **M-45-15**, "Interim Completion of Tank S-102 SST Waste Retrieval and Closure Demonstration Project"  
Due: 6/30/07  
Status: On schedule
- **M-45-15-T01**, "Final Completion of Tank S-102 SST Retrieval and Closure Demonstration Project"  
Due: 6/30/08  
Status: On schedule
- **M-45-16**, "Interim Completion of Tank S-105, S-106, and S-103 SST Waste Retrieval and Closure Demonstration Project"  
Due: 7/31/10  
Status: On schedule
- **M-45-16-T01**, "Final Completion of Tank S-105, S-106, and S-103 SST Retrieval and Closure Demonstration Project"  
Due: 7/31/11  
Status: On schedule
- **M-45-05-T17**, "Submit S-105, S-106, and S-103 Waste Retrieval and Closure Demonstration Functions and Requirements Document"  
Due: 4/30/05  
Status: On schedule
- **M-45-05E**, "Complete S-105, S-106, and S-103 Waste Retrieval and Closure Demonstration Project Design (including all physical systems and design/operating strategies for LDMM for each tank)"  
Due: 6/30/07  
Status: On schedule
- **M-45-05F**, "Complete S-105, S-106, and S-103 Waste Retrieval and Closure Demonstration Project Construction (including all physical systems and design/operating strategies for LDMM for each tank)"  
Due: 9/30/08  
Status: On schedule
- **M-45-05G-T01**, "Complete S-105, S-106, and S-103 Waste Retrieval"  
Due: 10/31/09  
Status: On schedule

**LOW VOLUME WASTE RETRIEVAL AND CLOSURE DEMONSTRATION PROJECT**

- **M-45-05H**, "Interim Completion of Tank C-106 SST Waste Retrieval and Closure Demonstration Project"  
Due: 4/30/04  
Status: On schedule
- **M-45-05N-T01**, "Final Completion of Tank C-106 SST Retrieval and Closure Demonstration Project"  
Due: 12/31/04  
Status: On schedule
- **M-45-05I-T01**, "Conduct C-106 Waste Retrieval and Closure Demonstration Project 30% Design Consultation"  
Due: 1/31/03  
Status: **Complete** - 1/30/03.
- **M-45-05J-T01**, "Complete C-106 Waste Retrieval and Closure Demonstration Project Design (including all physical systems and design/operating strategies for LDMM)"  
Due: 4/30/03  
Status: **Complete**. C-106 was pumped week of 3/31/03.
- **M-45-05K-T01**, "Complete C-106 Waste Retrieval and Closure Demonstration Project Construction (including all physical systems and design/operating strategies for LDMM)"  
Due: 9/30/03  
Status: On schedule
- **M-45-05L-T01**, "Complete Full Scale C-106 Waste Retrieval"  
Due: 11/1/03  
Status: On schedule
- **M-45-05M-T01**, "Submit C-106 Waste Retrieval Results, Analysis of Residual Waste(s), and (if appropriate) Request for Exemption to the Criteria Pursuant to Agreement Appendix H"  
Due: 2/27/04  
Status: Closure Data Quality Objective is being written. Tank waste sampling events have been scheduled.
- **M-45-06-T20**, "Submit SST System Implementation Plan in Support of Retrieval and Closure Activities"  
Due: 6/30/04 (and every two years thereafter)  
Status: On schedule
- **M-45-06A**, "Submit a Certified (Framework) SST System Closure Plan and C-106 Waste Retrieval and Closure Demonstration Plan as an Application for a Modification to the Hanford Site-Wide Hazardous Waste Facility Permit to Ecology (including all required

closure plan elements, characterization approach for residual wastes, and risk assessment methodology)"

Due: 12/19/02

Status: On schedule

- **M-45-06B**, "Submit a Certified (Framework) SST System Closure Plan and S-112 Waste Retrieval and Closure Demonstration Plan as an Application for a Modification to the Hanford Site-Wide Hazardous Waste Facility Permit to Ecology (including all required closure plan elements, characterization approach for residual wastes, and risk assessment methodology)"  
Due: 3/31/05  
Status: On schedule
- **M-45-06C**, "Submit a Certified (Framework) SST System Closure Plan and S-102 Waste Retrieval and Closure Demonstration Plan as an Application for a Modification to the Hanford Site-Wide Hazardous Waste Facility Permit to Ecology (including all required closure plan elements, characterization approach for residual wastes, and risk assessment methodology)"  
Due: 3/31/06  
Status: On schedule
- **M-45-06D**, "Submit a Certified (Framework) SST System Closure Plan and C-104 Waste Retrieval and Closure Demonstration Plan as an Application for a Modification to the Hanford Site-Wide Hazardous Waste Facility Permit to Ecology (including all required closure plan elements, characterization approach for residual wastes, and risk assessment methodology)"  
Due: 6/30/07  
Status: On schedule
- **M-45-06E**, "Submit a Certified (Framework) SST System Closure Plan Modification for Tanks S-105, S-106, and S-103 Closure Demonstration Plan as an Application for a Modification to the Hanford Site-Wide Hazardous Waste Facility Permit to Ecology (including all required closure plan elements, characterization approach for residual wastes, and risk assessment methodology) for each tank"  
Due: 12/31/08  
Status: On schedule

#### **Out-Year (Post 2006) Milestones:**

- **M-45-00**, "Complete Closure of all SST Farms" by 9/30/2024
- **M-45-03F**, "Complete Full-Scale Sludge/Hard Heel, Confined Sluicing and Robotic Technologies, Waste Retrieval Demonstration a SST C-104" by 9/30/2008
- **M-45-05**, "Retrieve Waste from All Remaining SSTs" by 9/30/2018
- **M-45-05-T05**, "Initiate Tank Retrieval from 5 Additional SSTs" by 9/30/2007
- **M-45-05-T06**, "Initiate Tank Retrieval from 5 Additional SSTs" by 9/30/2008
- **M-45-05-T07**, "Initiate Tank Retrieval from 7 Additional SSTs" by 9/30/2009
- **M-45-05-T08**, "Initiate Tank Retrieval from 8 Additional SSTs" by 9/30/2010

- M-45-00D, "Complete Renegotiation of the Remainder of the SST Waste Retrieval and Closure Program" by 6/30/2011
- M-45-05-T09, "Initiate Tank Retrieval from 10 Additional SSTs" by 9/30/2011
- M-45-05-T10, "Initiate Tank Retrieval from 12 Additional SSTs" by 9/30/2012
- M-45-05-T11, "Initiate Tank Retrieval from 14 Additional SSTs" by 9/30/2013
- M-45-05-T12, "Initiate Tank Retrieval from 17 Additional SSTs" by 9/30/2014
- M-45-05-T13, "Initiate Tank Retrieval from 20 Additional SSTs" by 9/30/2015
- M-45-05-T14, "Initiate Tank Retrieval from 20 Additional SSTs" by 9/30/2016
- M-45-05-T15, "Initiate Tank Retrieval from 20 Additional SSTs" by 9/30/2017
- M-45-06, "Complete Closure of all SST Farms in Accordance with Approved Closure/Post Closure Plans" by 9/30/2024
- M-45-06-T03, "Initiate Closure Actions on an Operable Unit or Tank Farm Basis" by 3/31/2012
- M-45-06-T04, "Complete Closure Actions on one Operable Unit or Tank Farm" by 3/31/2014

## II. Significant Accomplishments:

- Initiated Phase II acid dissolution laboratory studies.
- M45-05J-T01, "Complete Project Design for C-106"m due 4/03. On schedule. Design completed and submitted. Milestone expected to be signed off by end of May.
- Removed approximately 18K gallons of liquid from Tank C-106, and transferred to AY-102.
- Issued Construction Specification for S-Farm Infrastructure Upgrades.
- Submitted final design for S-102 Waste Retrieval System for contractor review.
- Initiated construction field activities.
- Received hose in hose transfer system for S-112 to S-A and S-A-101.
- Received progressive cavity pumps.
- Released ECN to install cameras in S-112.
- Issued ECN for upgrades to S Farm infrastructure.
- Completed fabrication of I/C cables needed to support offsite testing.
- Completed review of Operations Acceptance Checklist (OAC).
- Tentative agreement of pending agreement has been reached on Ecology comments on Interim Stabilization Consent Decree.
- Received court approval of Joint Motion for IS CD modification.
- Completed mobilization for in-farm cable trough excavation work, and began excavation and potholing for utilities.
- Submitted S-102 RAD NOC to WDOH; responding to comments received.
- Completed first draft of S-102 RCRA Closure Plan.
- Continuing with U-107 design for hose-in-hose transfer line (HIHTL) from U Farm to SY Farm.

## III. Significant Planned Actions in the Next Six Months:

- Continue work on the FY 2002 update of RPP-8554, "Single-Shell Tank Retrieval Sequence and Double-Shell Tank Space Evaluation."

- Continue evaluation of selected options for increasing DST space.
- Complete integration of S-112 design for application to S-102.
- Complete design of S-102 Waste Retrieval System.
- Complete fabrication and installation of S-112 Waste Retrieval System.
- Complete S-112 construction.
- Initiate C-104 Final Design.
- Complete C-104 MRS Cold Testing.
- Perform ORR on the C-104 MRS at the Cold Test Facility.
- Approve and release C-106 Enhanced Sluicing Process Control Plan
- Test C-Farm Exhauster for operability.
- Complete C-106 waste redistribution to optimize subsequent acid dissolution.
- Install/test Acid Dissolution Retrieval System in C-106.
- Retrieve C-106 sludge waste using acid dissolution.

#### IV. Issues:

- Retrieval of C-106 hard heel to a residual of <360 cubic feet will be challenging with existing planned technology. Completing baseline for acid-dissolution to assist accomplishment of retrieval goals. Video completed – condensed version should be available at end of week. Surface contour evaluations can now be done using video information.

#### V. Critical Path Schedule:

- Critical path for C-106 acid removal is Safety Basis Amendment, laboratory activities, and equipment installations.

**Milestone M-43-00, Tank Farm Upgrades****I. Near-Term Deliverables:**

- **M-43-16, Start Construction in 5<sup>th</sup> farm**  
Due: 6/30/03  
Status: **Complete.** Construction began in SY Farm March 17, 2003. Official notification to Ecology sent in letter 03-ED-060, April 24, 2003, "Completion of Hanford Federal Facility Agreement and Consent Order (HFFACO) M-43-016," "Start Construction for upgrades in the Fifth Tank Farm," Due June 30, 2003, J.E. Rasmussen/ORP to M.A. Wilson/DOEC.
- **M-43-00, Complete Tank Farm Upgrades**  
Due: 6/30/05  
Status: On schedule, pending definition of completion. Projects W-314 and E-525 are on schedule to complete Tank Farm upgrades in FY05. ORP is preparing a response to Ecology's January 14 letter and recommending a path forward for M-43 closure.

**II. Significant Accomplishments:**

- W-314 Completed Phase 1 AY upgrades as-builts and turn over to Operations March 24
- W-314 Complete Phase 1 AZ upgrades as-builts and turn over to Operations April 10
- W-314 Initiated factory testing of AN farm HVAC skids
- W-314 Received WDOH approval to place HVAC skids on pads
- W-314 Ordered material and initiated AW farm HVAC fabrication
- E-525 Completed ground penetrating radar scans of AY, AZ, AN, AW and SY to support design
- E-525 Completed comment resolution for 60% design.

**III. Significant Planned Actions in the Next Six Months:**

- W-314, 244-S DCRT bypass, start construction
- W-314, A-A Pit bypass, start definitive design
- W-314, AP Phase 2, complete early Pit O-2A upgrades
- W-314, AN Phase 1, complete As-builts and turnover to Operations
- W-314, AW Phase 1, turnover to Operations
- W-314, AY/AZ Phase 2, complete definitive design
- W-314, AN Phase 2, Initiate HVAC installation
- W-314, AW Phase 2, complete 7 pit upgrades
- W-314, SY Phase 2, complete 3 pit upgrades
- E-525 Complete final design

**Near-term Actions Needed by DOE or Ecology:**

- Complete discussions and negotiations on closure of M-43-00. A letter was received from Ecology on Jan. 20, 2003. ORP has drafted a letter in response and prepared guidance to the contractor.

**IV. Issues:**

- Nothing to report.

**Milestone M-46-00, Double-Shell Tank Space Evaluation****I. Deliverables:**

- **M-46-00I, Double-Shell Tank Space Evaluation**  
Due: 9/30/02  
Status: Complete
- **M-46-01I (Ecology MS), Concurrence of Additional Tank Acquisition**  
Due: Extended to 4/20/03  
Status: **Complete**. Letter received from Ecology April 21, 2003, J.J. Lyon/DOEC to J.E. Rasmussen/DOE.
- **M-46-00J, Double-Shell Tank Space Evaluation**  
Due: 9/30/03  
Status: On schedule
- **M-46-01J, Concurrence of Additional Tank Acquisition**  
Due: 11/30/03  
Status: On schedule
- **M-46-00K, Double-Shell Tank Space Evaluation**  
Due: 9/30/04  
Status: On schedule
- **M-46-01K, Concurrence of Additional Tank Acquisition**  
Due: 11/30/04  
Status: On schedule
- **M-46-00L, Double-Shell Tank Space Evaluation**  
Due: 9/30/05  
Status: On schedule
- **M-46-01L, Concurrence of Additional Tank Acquisition**  
Due: 11/30/05  
Status: On schedule
- **M-46-00M, Double-Shell Tank Space Evaluation**  
Due: 9/30/06  
Status: On schedule
- **M-46-01M, Concurrence of Additional Tank Acquisition**  
Due: 11/30/06  
Status: On schedule

**II. Significant Accomplishments:**

- Nothing to report.

**III. Significant Planned Actions in the Next Six Months:**

- Evaporator campaigns planned for June, and July 2003 will concentrate dilute waste to a SpG higher than 1.41. The WVR planned for each campaign will be based on gas retention limits for each tank.
- A letter is in process requesting support from ORP to remove restrictions from a specific set of WTP feed tanks. Most of the tanks would be concentrated to create space for additional waste.
- Update the SST Retrieval Sequence and DST Space Evaluation Report.
- Complete revisions to DST Emergency Pumping Guide.

**IV. Issues:**

- Ecology has requested a plan for implementing the DST space savings options in the April 21, 2003 letter to ORP by May 23, 2003. Discussions to clarify the request are ongoing.

## DST Space Optimization

(Background information requested by Ecology)

- Increase the DST fill height from 416 to 436 inches in 24 tanks (potentially 1.4 M gallons of additional space).  
Status: Completed an assessment of the potential for modification of existing equipment and of W-211 equipment design. The assessment indicated that existing and planned equipment in the DST that would have very little impact on the target increased level of 436". The assessment also determined that, with minor modifications, the target level in some tanks could be increased to near 450", which could add up to an additional one million gallons of tank space. Scoping plans and cost estimates of equipment modifications will be developed to determine the feasibility of increasing the waste levels to this height. A seismic analysis of waste stored at the higher volume has been performed and is undergoing an independent review. Also, the historical integrity of the upper region of the tanks is being studied. (Static water leak test/inspections) Specific DST that would most benefit from increasing the allowable waste storage volume.
  
- Reserve emergency space to reflect compliance with DOE Order 435.1 for the DST system (provides 1.1 M gallons of DST space).  
Status: Currently 2.2 M gallons of space is kept in reserve for the DST system and WTP returns, while the Order requires 1.1 M gallons (equivalent to one DST). Reducing the reserve space to respond to a single emergency less than 1.1 M gallons continues to meet DOE's order requirement, while making 1.1 M gallons of space available to support acceleration. Agreement was reached between WTP and Tank Farm to share the emergency space in ICDs 19 and 20. A revision of the DST Emergency Pumping Guide is in process and has been shared with Ecology. The final report is scheduled for completion May 30, 2003.
  
- Implement tank-by-tank evaluations to allow greater concentration of wastes beyond current 1.41 SpG limit. Tank-by-tank assessments may allow additional concentration (up to 1.6 SpG) while avoiding solids precipitation that influences flammable gas retention (may provide up to an additional 3.0M gallons of effective DST space).  
Status: A safe and technically sound path was developed to allow the 242-A Evaporator to concentrate waste to a specific gravity (SpG) high than 1.41. The Evaporator Campaign 03-02 increased the waste volume reduction (WVR) to 29% at a SpG of about 1.47 resulting in 200,000 gallons of additional DST space made available. Future Evaporator campaigns will concentrate dilute waste to a SpG higher than 1.41. The WVR planned for each campaign will be based on gas retention limits for each tank.
  
- Use space currently identified as "restricted" space in tanks that contain staged feed for WTP. (provides up to 1.3M gallons of DST space).  
Status: A letter will be issued in May 2003 requesting support from ORP in removing restrictions from a specific set of WTP feed tanks. Most of the tanks would be concentrated and consolidated to create space for additional waste.

**Milestone M-47-00, Complete Work Necessary to Support Acquisition And Phase I Operations of Hanford Site High-Level Radioactive Waste Treatment, Storage, and Disposal Facilities**

**I. Near-Term Deliverables:**

- **M-47-05**, Start construction of waste retrieval and mobilization systems for selected initial low-activity waste feed tank (other than AZ-101 and AZ-102)  
Due: 5/31/04  
Status: On schedule. Existing AP-101 transfer pump removed. New pump ordered. New pump installation scheduled for FY 2004.
- **M-47-03**, Start construction of waste retrieval and mobilization systems for selected initial high-level waste feed tank.  
Due: 7/30/04  
Status: **Complete**. ORP to Ecology letter 02-TPD-033, "Completion of FHHACO Milestone M-47-03 Start of Construction of Waste Retrieval and Mobilization System for Selected HLW Feed Tank," dated 12/16/02.
- **M-47-01**, Complete construction of the transfer line system from the 241-AP Tank Farm to the WTP Facility to support the start of hot commissioning of the Phase I Tank Waste Treatment Complex  
Due: 3/31/06  
Status: On schedule. Pipe installation, welding and pressure testing is ongoing. AP-02A and AP-02D pit modifications are ongoing.
- **M-47-05A**, Complete startup and turnover activities for waste retrieval and mobilization systems for selected initial low-activity waste feed tank (other than AZ-101 or AZ-102)  
Due: 4/30/06  
Status: Ahead of schedule. AP-101 pump installation and turnover to operations scheduled for FY 2004.

**Out year (Post 2006) Milestones:**

- **M-47-02**, Complete startup and turnover activities for required transfer system upgrades to allow transfer of first high-level waste feed to the Pretreatment/Treatment Complex  
Due: 3/31/07  
Status: Ahead of schedule. W-314 completed construction of new transfer lines from AZ to AP tank farms (SN-634, SN-636, and SN-637). W-211 AP-WTP transfer line and pit construction is ongoing (see M-47-01).
- **M-47-03A**, Complete startup and turnover activities for waste retrieval and mobilization systems for selected initial high-level waste feed tank  
Due: 2/28/07  
Status: Ahead of schedule. AZ-101 transfer pump has been fabricated, tested, received and placed in storage (see issue below). Jumpers, cover blocks, dilution system and infrastructure modifications are ongoing. Construction turnover, with exception of transfer pump installation, scheduled for FY 2004.

- **M-47-04**, Complete startup and turnover activities for required transfer system upgrades to allow transfer of first low-activity waste feed to the pretreatment/treatment complex  
Due: 6/30/07  
Status: Ahead of schedule. Startup and turnover follow AP-101 transfer pump is scheduled for FY 2004.
- **M-47-06**, Complete negotiation of additional agreement requirements (milestones, target dates, and associated language) governing work necessary to support completion of treatment complex Phase I operations by 2018  
Due: 6/30/10  
Status: Negotiations are not yet underway.

## II. Significant Accomplishments:

- Initiated AN Retrieval System infrastructure construction
- Awarded contract for fabrication of AN-101 and AZ-102 mixer pumps.

## III. Significant Planned Actions in the Next Six Months:

- Initiate construction of the AN-101 Retrieval System.
- Complete construction of the transfer system from the 241-AP Tank Farm to the WTP interface point.
- Complete construction of the AZ-101 Retrieval System (delayed transfer pump installation to FY08).
- Initiate electrical upgrades for AP-101 transfer pump.

## IV. Near-term Actions Needed by DOE or Ecology:

- Concurrence needed on AZ-101 transfer pump installation and M47-03A milestone (see below).

## V. Issues:

- Deferred installation of AZ-101 transfer pump is technically prudent but may not be consistent with expectations for TPA milestone M47-03A:
  - A briefing package has been prepared to address Ecology questions from April PMM
  - A draft TPA change request has been prepared by CHG.

**M-45-50, -60 Single-Shell Tank Corrective Action****I. Near-Term Deliverables:**

- **M-45-55-T02**, Submit to Ecology for review and comment as an Agreement secondary document a Field Investigation Report pursuant to the site-specific SST WMA Phase I RFI/CMS Work Plan addenda for WMA B, BX, and BY  
Due: 01/31/03  
Status: Report has been delivered to Ecology for review. Ecology has requested additional review time.
- **M-45-55-T03**, Submit to Ecology for review and comment as an Agreement secondary document a Field Investigation Report pursuant to the site-specific SST WMA Phase I RFI/CMS Work Plan addenda for WMA T, TX, and TY  
Due: 1/2005  
Status: Preliminary work started, fieldwork continues.
- **M-45-55**, Submit to Ecology for review and approval as an Agreement primary document a Phase 1 RFI report integrating results of data gathering activities and evaluations for WMAs S-SX, T, TX-TY, and B-BX-BY and related activities, including groundwater monitoring and impacts assessment using Hanford Site groundwater models, with conclusions and recommendations  
Due: 2/2004  
Status: Work not started; forecast on schedule.
- **M-45-60**, Submit to Ecology for review and approval as an Agreement primary document DOE's RFI/CMS Work Plan for SST WMAs  
Due: 6 months following RFI report approval  
Status: Work not started; forecast on schedule.

**II. Significant Accomplishments:**

- Fieldwork continues in the T SST Farm. As of 4/30/03, the first characterization borehole has been decommissioned. The drill rig is advancing casing at the second borehole. Currently, casing has been advanced to a depth of 101 feet, with a total of 14 samples collected. The second borehole is located near T-106, approximately twelve feet from the "GAO Borehole" reported in 1994.
- C and A/AX Subsurface Conditions Description Report - Completed March 2003. Ecology has been notified.
- U Farm Subsurface Conditions Description Report – Completed May 2003

**VI. Significant Planned Actions in the Next Six Months:**

- Participate in C3T exercise for ground water monitoring.
- Drilling second borehole - should be completed in May.
- Start work on T/TX-TY Field Investigation Report.
- Shallow investigations with cone penetrometer in T-and-TY WMAs in FY 2003 – work scheduled for this summer.

**IV. Issues:**

- Met with Ecology staff on April 21, 2003, to revise M-45-50/60 series to reflect projected work in SST Farm Vadose characterization. ORP staff will provide a preliminary draft of Change Request language the week of May 5, 2003.

**M-23, Tank Integrity and Monitoring****I. Near-Term Deliverables:**

- **M-23-23**, Submit SST System Leak Detection and Monitoring F&R Document  
Due: 6/15/02  
Status: **Complete**. Ecology agreed to DOE's 90-day extension for comment resolution. RCR was signed by Ecology and the document changed to incorporate comments. Document was delivered to Ecology 12/24/02 for approval.
- **M-23-25B**, Complete the Installation of Liquid Observation Wells (LOWs) and Begin Liquid Observation.  
Due: 9/30/02  
Status: **Complete**.
- **M-23-25C**, Complete the Installation of Liquid Observation Wells (LOWs) and Begin Liquid Observation  
Due: 3/31/03  
Status: **Complete**
- **M-23-25D**, Complete the Installation of Liquid Observation Wells (LOWs) and Begin Liquid Observation  
Due: 9/30/03  
Status: On schedule. Three new LOWs are to be installed in May and the fourth in July.
- **M-23-25E**, Procure Necessary Equipment to Support Additional LOW Monitoring Systems  
Due: 9/30/03  
Status: Negotiating to delete this milestone due to reduced monitoring requirements from M-23-23. Extra equipment is no longer needed.
- **M-23-25F**, Complete the Installation of Liquid Observation Wells (LOWs) and Begin Weekly Liquid Observation  
Due: 3/31/04  
Status: On schedule
- **M-23-25**, Complete the Installation of Liquid Observation Wells (LOWs)  
Due: 9/30/04  
Status: On schedule
- **M-23-25G**, Complete the Installation of Liquid Observation Wells (LOWs) and Begin Weekly Liquid Monitoring  
Due: 9/30/04  
Status: On schedule

**II. Significant Accomplishments:**

- None at this time.

**III. Significant Planned Actions in the Next Six Months:**

- Complete installation of LOWs for M-23-25D.

**IV. Issues:**

- Replacement of the LOW in TX-116 did not go as planned and the LOW was damaged. That LOW will be removed and a replacement installed in May.

**M-48-00, DST Integrity Assessment Program****I. Deliverables:**

- **M-48-02**, Submit to Ecology a Report Assessing Technology Development  
Due: 9/17/00 and every six months thereafter until equipment is deployed  
Status: Complete  
SAFT/TSAFT equipment was successfully deployed in December FY03 and last Ecology Technology Development report was transmitted early March 2003. M-48-02 will be declared complete in Sept. FY 2003.
- **M-48-10**, Submit Results of Four DSTs not Previously Examined  
Due: 9/30/02  
Status: **Complete**
- **M-48-11**, Submit Results of Four DSTs not Previously Examined  
Due: 9/30/03  
Status: On-going
- **M-48-12**, Submit Results of Four DSTs not Previously Examined  
Due: 9/30/04  
Status: On-going
- **M-48-13**, Submit Results of Four DSTs not Previously Examined  
Due: 9/30/05  
Status: On-going
- **M-48-14**, Submit Written Integrity Report for the DST System  
Due: 3/31/06  
Status: On-going
- **M-48-15**, Submit a Report to Ecology for the Re-examination of Six DSTs by Ultrasonic Testing  
Due: 9/30/07  
Status: On-going
- **M-48-00**, Complete Tank Integrity Assessment Activities for Hanford Double Shell Tanks System  
Due: 9/30/07  
Status: On-going

**II. Significant Accomplishments:**

- Completed ultrasonic testing (UT) examination of DST AP-105.
- Completed annulus video examination of Tank SY-103.

**III. Significant Planned Actions in the Next Six Months:**

- Initiate FY03 UT inspections of four DSTs not previously examined (AP-101, AP-103, AP-105, AZ-102). Collection of AP-101, AP-103 and AP-105 UT data complete.
- Initiate FY03 video inspections of 10 DSTs: SY-101 through SY-103, AP-101 through AP-106, AN-105. Annulus video examination of SY-103 is complete.
- AY-101 fitness-for-service evaluation for 2001/2002 is complete and the TFC is in the process of removing the level restriction.

**IV. Issues:**

- None

2000 sq ft. of most corroded and pitted part of tank AY-101 structurally sound. The 80" restriction will be removed. PNNL also doing independent study. Rescan is presently scheduled for 2008.

**In Tank Characterization and Summary**

**I. Significant Accomplishments:**

As of May 2, 2003:

- Sampling Activities:

<u>Program</u>	<u>Tanks Completed</u>		
	1 <sup>st</sup> Quarter	2 <sup>nd</sup> Quarter	3 <sup>rd</sup> Quarter
Cross-Site Transfer	SY-102 (G)		244-AR (G)
Chemistry Control	AN-107 (C)	AW-101 (C)	AN-102 (C)
	AN-101 (G)	AN-107 (G)	AY-102 (C)
	AP-103 (G)	AW-105 (G)	
	AP-106 (G)		
	AY-102 (G)		
	AW-102 (G)		
SST Retrieval/Closure	U-107 (G)	C-106 (G)	C-106 (G)
Evaporator Operations	SY-101 (G)	AP-108 (G)	AW-106 (G)
	AW-106 (G)	AW-104 (G)	
		AP-104 (G)	
Health		TX-116 (G)	TX-116 (G)

- Completed a total of 5 TCRs for this FY.
- Completed DQO for Tank 241-U-107 Dissolution Proof-of -Concept, Rev. 2, November 2002.
- Completed FY 2003 1<sup>st</sup> Quarter Status Report and submitted to Ecology January 2003.
- Completed Annual Characterization Sampling Priority Workshop on February 12, 2003.
- Conducted a comment resolution meeting on C-106 Closure Demonstration DQO with Ecology April 18, 2003. All comments were resolved.
- Completed FY 2<sup>nd</sup> Quarter Status Report and submitted to Ecology in April 2003.

**II. Significant Planned Actions within the Next Six Months:**

- Complete Tank 241 C-106 Closure Demonstration DQO, May 2003.
- Complete FY 2004 Characterization Priority Sampling Priority Document by May 31, 2003.
- Complete Closure DQO for Tanks 241-C-201, C-202, C-203, C-204.
- Complete FY 03 3<sup>rd</sup> Quarter Status Report by July 31, 2003.

**III. Issues:**

- None

**Milestone M-90-00, Complete Acquisition of New Facilities, Modifications of Existing facilities, and/or Modifications of Planned Facilities, as Necessary for Storage of Hanford Site Immobilized High Level Waste (IHLW), Immobilized Low Activity Waste (ILAW), and Disposal of ILAW, and M-20-00, Submit Part B Permit Applications**

**I. Near-Term Deliverables:**

- **M-20-56**, Submit Canister Storage Facility Part B Permit Application  
Due: 6/30/03  
Status: On schedule
- **M-20-57**, Submit ILAW Disposal Facility Certified Part B Permit Application to Ecology  
Due: 6/30/03  
Status: On schedule
- **M-90-09-T01**, Complete Detailed Design of ILAW Disposal Facility Critical Systems to 80%  
Due: 5/30/03  
Status: On schedule
- **M-90-08**, Initiate ILAW Disposal Facility Construction.  
Due: 2/28/05  
Status: On schedule

**Out year (Post 2006) milestones:**

- **M-90-10**, Initiate Placement of ILAW Waste Canisters in ILAW Disposal Facility  
Due: 8/31/08  
Status: On schedule
- **M-90-11**, Complete Canister Storage Facility Construction  
Due: 6/30/09  
Status: Behind schedule

**II. Significant Accomplishments:**

- IDF 80% design of critical systems review initiated – April 2003.
- Completed IDF Project Execution Plan – April 2003.
- Completed detailed design of Canister Storage Building critical systems to 80% - April 2003.
- Draft Part B Permit Applications for the CSB and IPF were reviewed by DOE – April 2003.

**III. Significant Planned Actions in the Next Six Months:**

- Issue revised Design Requirements Document for CSB Project W-464 – May 2003
- Complete draft IDF performance risk assessment – May 2003
- Submit completed detailed design of IDF facility critical systems to 80% to Ecology – May 2003 –M-90-09-T01.
- Submit IDF Part B Permit application to Ecology – June 2003 - M-20-057.
- Submit CSB Part B Permit application to Ecology – June 2003 - M-20-056.

#### IV. Issues

- Location of IDF at the site near Purex or at ERDF – June/July decision.

**M-62, Complete Pretreatment Processing and Vitrification of Tank Wastes****I. Near-Term Deliverables:**

- **M-62-01**, Submit Semi-Annual Compliance Report  
Due: Semi-annually beginning July 31, 2000  
Status: The next report is due July 31, 2003.
  
- **M-62-06**, Start of Construction – Phase I Treatment Complex  
Due: December 31, 2002  
Status: **Complete**. 7/10/02, first concrete pour made.
  
- **M-62-07**, Construction Progress Milestones (2) – Phase I Treatment Complex  
Due: TBD  
Two new Construction Progress Milestones have been defined and submitted in the Recovery Plan. Pending approval of the associated change form, the new milestones will be:
  - M-62-07A, Initial erection of LAW Structural Steel in the Vit. Facility  
Due Date: October 30, 2003
  
  - Recovery Plan: M-62-07B, Complete Assembly of LAW Melter  
Due Date: October 30, 2005
  
- **M-62-08**, Submittal of Hanford Tank Waste Phase II Treatment Alternatives Report  
Due: July 31, 2005  
Status: On schedule  
The Strategic Planning Group within the ORP Office of the Assistant Manager for Integration and Control has initiated long range planning for the remainder of the Hanford waste immobilization. Efforts include proposed R&D needs, tank waste inventory projections and plant sizing options. Initial submittal of the report is scheduled for July 31, 2005.
  
- **M-62-03**, Submit DOE petition for RCRA de-listing of vitrified HLW  
Due: December 31, 2006  
Status: The LDR and delisting DQO are under review and comment. Research and technology work continues. This activity is on schedule to be completed by 12/31/06.

**Out year (Post 2006) milestones:**

- **M-62-09**, Start (Hot) Commissioning - Phase 1  
Due: December 31, 2007  
Status: Hot Commissioning of the Phase I Treatment Complex is on schedule. This milestone is a contract requirement for the Waste Treatment Plant; reference Section F, paragraph F.1 (b) milestone M-4. The contractor is incentivised to meet or beat the start of Hot Commissioning by December 31, 2007.

- **M-62-10**, Complete Hot Commissioning – Phase I Treatment Complex  
Due: January 31, 2011  
Status: On schedule
- **M-62-11**, Submittal of Hanford Tank Waste Treatment Phase II Plan  
Due: January 31, 2014  
Status: On schedule
- **M-62-00A**, Complete pretreatment, processing and vitrification of Hanford Phase I HLW and Low Activity Waste (LAW)  
Due: February 28, 2018  
Status: On schedule  
As committed to in the BNI contract, stated in the change package, DOE is on a schedule to complete the first 10% of waste processing measured by mass and 25% of waste processing measured by radioactivity by February 28, 2018.
- **M-62-00**, Complete pretreatment processing and vitrification of Hanford high level and low activity tank waste  
Due: December 31, 2028  
Status: On schedule  
ORP remains committed to this activity. The completion date for this milestone will be evaluated on a continual basis as we progress with this program. Committed means that DOE intends to "bring about" or perform all work to ensure that Hanford's high-level radioactive waste is vitrified by December 31, 2028.
- **M-62-12**, Issuance of DOE Authorization to Proceed – Phase II Treatment  
Due: TBD  
Status: This milestone will be negotiated in the 2014 timeframe.

## II. Significant Accomplishments:

### March/April Highlights

- March 7, 2003, the Project Baseline Forecast was submitted by BNI to ORP. Based upon this submittal, the External Independent Review team recommended approval of the baseline.
- March 28, 2003, the Energy System Acquisition Advisory Board recommended to the Secretary of Energy approval of the cost and schedule baseline as well as Critical Decision 3C.
- On April 21, 2003, Critical Decision 3C was approved, granting full construction authorization.
- On April 25, 2003, the revised Contract was signed between DOE and BNI.
- BNI is underway with implementation of the 2003 Baseline Forecast into detailed work plans. This activity will be complete in June.
- Construction progress for the month:
  - 1,650 cubic yards concrete placed
  - 14,100 square feet of formwork completed
  - 360 tons of rebar were set
  - 97,000 pounds of embeds installed

Pretreatment Facility

- Approved DWP for secondary containment was received allowing concrete placements for the main PT basemat at El. 0ft.
- Three wall placements were made in the process vessel pit and tunnels
- Approved the design change to eliminate the technetium ion exchange system
- Received 60 tons of structural steel for installation in the process vessel pit
- Completed the Project's first installation of a DWP-regulated vessel, the C3 drain collection vessel in the fire water pit.

LAW Vitrification Facility

- Completed two wall placements
- E&NS: Re-Issued permit design packages LAW-001 and LAW-004
- Mechanical Systems: Issued Dangerous Waste Permit Application Flooding and Sump documents, and permit drawing for RLD system
- The Duratek Melter Design package is now under review for final issue.
- Contract deliverable 6.1 "Immobilized Low Activity Waste Product Compliance Plan" was issued to ORP. This document replaces Section 5 of the Products and Secondary Wastes Plan per DOE-ORP direction.
- 2 + 2 Melter Authorization Basis Change Notice removing the third (east) melter from the LAW facility was approved.

HLW Vitrification Facility

- Completed first wall placement
- Completed installation of embedded C5 duct at elevation -21'0"
- Completed assessment determining optimal facility arrangement in view of several cost and technical risk factors emerging from design evolution. The outcome of this assessment is the recommendation to increase the building height by approximately seven feet.

Balance of Facilities

- Trends were approved for eliminating the Encapsulation Facility, the Central Waste Storage Facility, and modification of the Spent Melter Staging Facility
- Mass excavation for Plant Cooling Water Underground pipe began. Completed the first 48" pipe installation.
- Completed Simulator Building 30 Submittal Package Review.
- Construction continues according to schedule for the Switchgear Building vault.

Analytical Laboratory Facility

- Issued 6 (Stage C) P&IDs, 1 (Stage C) Process Flow Diagram, and (Rev.B) of the System Description all associated with the Radioactive Liquid Waste Disposal system, marking a significant step in advancing the design.
- Agreed to accelerate the Lab engineering and construction schedule to eliminate the temporary Lab and thereby save as much as \$7M.

**III. Significant Planned Actions in the Next Six Months**

- Start structural steel in HLW construction
- Start structural steel in LAW construction
- Realign M-62 milestones with revised WTP schedule
- Complete the schedule update activity for project controls and reporting

**IV. Issues**

- M-62 and M-92-05 proposed changes pending ORP and Ecology management negotiations.

**M-92-05, Inclusion of Hanford Site Cs/Sr treatment and/or repackaging parameters in DOE TWRS Phase II request for proposals**

**I. Near-Term Deliverables:**

- M-92-05, Inclusion of Hanford Site Cs/Sr treatment and/or repackaging parameters in DOE TWRS Phase II request for proposals

Due: 6/30/2007

Status: According to M-62-11 and M-62-12 milestones, DOE will not be seeking Phase II requests for proposals until the 2014 time frame. However, in the current BNI Contract C.7, Facility Specification, the following requirement is stipulated: "The Contractor shall design the WTP to ensure that the plant is designed and built with features to provide increased operational capacities, as follows:

(4) Pretreatment can connect to a potential new facility designed to receive and treat the Hanford Cs and Sr capsules prior to incorporation into the HLW feed for immobilization in the HLW Vitrification Facility."

Note: This issue is being addressed in CT3 efforts.

# Backup Information: Cost and Schedule Variance Analysis

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**CH2M HILL Hanford Group, Inc.**  
**FY 2003 PERFORMANCE MEASUREMENT - MARCH FINAL**  
**BY PROJECT BASELINE SUMMARY/CAPITAL PROJECTS**

Dollars in Thousands

	Cummulative FYTD								Budget at Completion (BAC)
	Budgeted Cost		Actual Cost Work Performed	Variance					
	Work Scheduled	Work Performed		Schedule	SV %	Cost	CV %		
ORP-TW03	STORE WASTE	63,933	65,587	73,389	1,654	2.6%	(7,802)	-11.9%	136,466
ORP-TW04	RETRIEVE WASTE	30,686	31,852	29,511	1,166	3.8%	2,341	7.3%	69,543
	W-211 - Initial Tank Retrieval Systems - Project	10,618	13,945	9,954	3,327	31.3%	3,991	28.6%	23,757
	W-314 - Tank Farm Restoration & Safe Operations - Project	13,959	15,306	13,881	1,346	9.6%	1,425	9.3%	43,988
	<b>TOTAL RETRIEVE WASTE</b>	<b>55,263</b>	<b>61,102</b>	<b>53,346</b>	<b>5,839</b>	<b>10.6%</b>	<b>7,757</b>	<b>12.7%</b>	<b>137,288</b>
ORP-TW06	TREAT WASTE	8,698	8,211	5,311	(486)	-5.6%	2,901	35.3%	23,097
	W-519 - Priv. Phase 1 Infrastructure Support - Project	0	0	(97)	0	0.0%	97	0.0%	0
	<b>TOTAL TREAT WASTE</b>	<b>8,698</b>	<b>8,211</b>	<b>5,214</b>	<b>(486)</b>	<b>-5.6%</b>	<b>2,998</b>	<b>35.3%</b>	<b>23,097</b>
ORP-TW09	DISPOSE WASTE	4,186	3,944	5,407	(242)	-5.8%	(1,464)	-37.1%	10,243
ORP-TW10	MANAGE PROJECT	32,264	32,281	32,358	16	0.1%	(77)	-0.2%	75,072
ORP-TW11	CLOSE FACILITIES	11,721	10,303	15,001	(1,418)	-12.1%	(4,698)	-45.6%	27,223
ORP-PED	PROJECT ENGINEERING & DESIGN								
	PED - IHLW Interim Storage Facility - Line Item	37	(105)	645	(142)	-387.1%	(750)	-711.8%	1,957
<b>RPP TOTAL</b>		<b>176,102</b>	<b>181,323</b>	<b>185,359</b>	<b>5,220</b>	<b>3.0%</b>	<b>(4,036)</b>	<b>-2.2%</b>	<b>411,345</b>

## TW03 - STORE WASTE

### PERFORMANCE SUMMARY

FY 2003 Cumulative Performance – Store Waste						
(\$000)						
	<u>BCWS</u>	<u>BCWP</u>	<u>ACWP</u>	<u>SV</u>	<u>CV</u>	<u>BAC</u>
HANDI	63,933	65,587	73,389	2.6%	-11.9%	136,466

### SCHEDULE VARIANCE

**Description and Cause:** The favorable schedule variance (\$1.7M; 2.6%) is a result of the following:

CH2M HILL submitted the Documented Safety Analysis (DSA) ahead of the date contained in 10 CFR 830, Nuclear Safety Management.

Tank Waste Characterization grab sampling activities are ahead of schedule due to favorable weather conditions and timely access to all tanks schedule to be sampled.

**Impact:** There is no forecasted impact.

**Corrective Action:** None required.

### COST VARIANCE

**Description and Cause:** The unfavorable cost variance (-\$7.8M; -11.9%) is the result of the following:

Waste Feed Operations and SST/DST maintenance has a higher number of operators and HPTs than planned supporting basic maintenance and monitoring activities. In addition, extra resources were required on unplanned equipment failures, inspections, and cleaning and testing of DST facilities.

Interim Stabilization has incurred unplanned costs on the failed S/SX transfer line for design, engineering, planning and fabrication of a new hose-in-hose transfer line (HIHTL) from S-A valve pit to Tank 241-SY-102, as well as increased requirements resulting from corrective actions surrounding the failed SX HIHTL. Extra resources were used to expedite the startup of pumping Tank 241-C-103 and repairing unexpected equipment failures. Additionally, front-end maintenance costs to keep tanks pumping are higher than planned.

Subcontract and CH2M HILL labor costs were higher than planned for activities related to the transition to the new IMAP baseline

As part of the new IMAP baseline, budget was transferred from the Closure Project Infrastructure account to the WFO Infrastructure account starting in April 2003. This has resulted in a misalignment with actual costs that have been incurred to date in FY 2003.

**Impact:** Costs related to the IMAP transition will result in an overrun condition at fiscal year-end. Actions, including resource redeployment, are needed to prevent an overrun condition in this PBS at fiscal year-end.

**Corrective Action:** Operators and HPTs will be reassigned to alternative work scope.

Resources will be redeployed as tank pumping and Interim Stabilization equipment repairs are completed.

The fiscal year unfavorable variance for WFO Infrastructure will self-correct beginning in April 2003.

## TW04 - RETRIEVE WASTE

### PERFORMANCE SUMMARY

FY 2003 Cumulative Performance – Retrieve Waste						
(\$000)						
	<u>BCWS</u>	<u>BCWP</u>	<u>ACWP</u>	<u>SV</u>	<u>CV</u>	<u>BAC</u>
TW04 – Expense	30,686	31,852	29,511	3.8%	7.3%	69,543
W-211	10,618	13,945	9,954	31.3%	28.6%	23,757
W-314	13,959	15,306	13,881	9.6%	9.3%	43,988

### SCHEDULE VARIANCE

#### RETRIEVE WASTE – EXPENSE

**Description and Cause:** The favorable schedule variance (\$1.2M; 3.8%) is the result of tank farm risk assessments that have started for tanks originally scheduled to start in future years.

**Impact:** There is no forecasted impact.

**Corrective Action:** None required.

#### RETRIEVE WASTE – CAPITAL PROJECTS

##### Project W-211 - Initial Tank Retrieval Systems

**Description and Cause:** The favorable schedule variance (\$3.3M; 31.3%) is the result of construction contracts, including AZ-101 retrieval system construction and the transfer system construction contracts, which have completion dates significantly ahead of the baseline.

**Impact:** There is no forecasted impact.

**Corrective Action:** None required.

##### Project W-314 - Tank Farm Restoration and Safe Operations

**Description and Cause:** The favorable schedule variance (\$1.3M; 9.6%) is due to AP Phase 2 90% definitive design, SY Phase construction work on two pits, AN Phase 2 HVAC skid fabrication, and 70% completion of part 3 Construction being completed ahead of schedule.

**Impact:** There is no forecasted impact.

**Corrective Action:** None required.

## COST VARIANCE

### RETRIEVE WASTE – EXPENSE

**Description and Cause:** The favorable cost variance (\$2.3M; 7.3%) is the result of efficiencies in the procurement and design activities of the S-112 Retrieval/Closure project.

**Impact:** The S-112 FY 2003 favorable cost variance will allow for acceleration of FY 2004 work scope to FY 2003.

**Corrective Action:** None required.

### RETRIEVE WASTE – CAPITAL PROJECTS

#### Project W-211 - Initial Tank Retrieval Systems

**Description and Cause:** The favorable cost variance (\$4.0M; 28.6%) is the result of contract awards for procurement and construction that were less than planned in the baseline.

**Impact:** There is no forecasted impact.

**Corrective Action:** None required.

#### Project W-314 - Tank Farm Restoration and Safe Operations

**Description and Cause:** The favorable cost variance (\$1.4M; 9.3%) is a result of cost savings that are being achieved through competitive bidding for the Phase 2 definitive designs on AY, AZ and AP Farms. In addition, cost savings are being realized on the HVAC procurement for AW Phase 2 due to the use of a contract option on the AN Phase 2 HVAC procurement.

**Impact:** There is no forecasted impact.

**Corrective Action:** None required.

## TW06 - TREAT WASTE

### PERFORMANCE SUMMARY

	FY 2003 Cumulative Performance – Treat Waste					
	<u>BCWS</u>	<u>BCWP</u>	<u>ACWP</u>	<u>SV</u>	<u>CV</u>	<u>BAC</u>
TW06-Expense	8,698	8,211	5,311	-5.6%	35.3%	23,097
W-519	0	0	-97	0.0%	0.0%	0

## SCHEDULE VARIANCE

### TREAT WASTE - EXPENSE

**Description and Cause:** The unfavorable schedule variance (-\$0.5M; -5.6%) is within the reporting threshold.

**Impact:** There is no forecasted impact.

**Corrective Action:** None required.

**TREAT WASTE – CAPITAL PROJECTS** (values for W-519 represent residual accrual activity from FY 2002)

**Project W-519 - Privatization Phase I Infrastructure Support**

**Description and Cause:** The schedule variance (\$0.0M; 0.0%) is within the reporting threshold.

**Impact:** There is no forecasted impact.

**Corrective Action:** None required.

**COST VARIANCE**

**TREAT WASTE - EXPENSE**

**Description and Cause:** The favorable cost variance (\$2.9M; 35.3%) is the result of the following:

Costs for Low Activity Waste (LAW) activities were not adequately accrued. In addition, the budget and resulting performance is front-loaded in the baseline while costs will be incurred later in the fiscal year.

Fewer resources than planned have been required for the TRU/LLW Packaging project management activity.

**Impact:** There is no forecasted impact.

**Corrective Action:** The accruals for LAW activities will be corrected in April 2003.

**TREAT WASTE – CAPITAL PROJECTS**

**Project W-519 - Privatization Phase I Infrastructure Support**

**Description and Cause:** The cost variance (\$0.1M; 0.0%) is within the reporting threshold.

**Impact:** There is no forecasted impact.

**Corrective Action:** None required.

**TW09 - DISPOSE WASTE**

**PERFORMANCE SUMMARY**

	FY 2003 Cumulative Performance – Dispose Waste					
	(\$000)					
	<u>BCWS</u>	<u>BCWP</u>	<u>ACWP</u>	<u>SV</u>	<u>CV</u>	<u>BAC</u>
HANDI	4,186	3,944	5,407	-5.8%	-37.1%	10,243

**SCHEDULE VARIANCE**

**DISPOSE WASTE**

**Description and Cause:** The unfavorable schedule variance (-\$0.2M; -5.8%) is within the reporting threshold.

**Impact:** There is no forecasted impact.  
**Corrective Action:** None required.

### COST VARIANCE

### DISPOSE WASTE

**Description and Cause:** The unfavorable cost variance (-\$1.5M; -37.1%) is the result of a point-in-time adjustment that was recorded in March, based on CD-2 approval, which reduced project-to-date performance for Project W-464, Initial IHLW Storage Facility.

**Impact:** The project-to-date costs are accurately stated, however the fiscal year performance will continue to reflect an unfavorable variance as a result of this point-in-time adjustment.

**Corrective Action:** None required.

## TW10 - MANAGE PROJECT

### PERFORMANCE SUMMARY

FY 2003 Cumulative Performance -- Manage Project						
(\$000)						
	<u>BCWS</u>	<u>BCWP</u>	<u>ACWP</u>	<u>SV</u>	<u>CV</u>	<u>BAC</u>
HANDI	32,264	32,281	32,358	0.1%	-0.2%	75,072

### SCHEDULE VARIANCE

**Description and Cause:** The favorable schedule variance (\$0.0M; 0.1%) is within the reporting threshold.

**Impact:** There is no forecasted impact.

**Corrective Action:** None required.

### COST VARIANCE

**Description and Cause:** The unfavorable cost variance (-\$0.1M; -0.2%) is within the reporting threshold.

**Impact:** There is no forecasted impact.

**Corrective Action:** None required.

## TW11 - CLOSE FACILITIES

### PERFORMANCE SUMMARY

FY 2003 Cumulative Performance – Close Facilities						
	<u>BCWS</u>	<u>BCWP</u>	<u>ACWP</u>	<u>SV</u>	<u>CV</u>	<u>BAC</u>
HANDI	11,721	10,303	15,001	-12.1%	-45.6%	27,223

### SCHEDULE VARIANCE

**Description and Cause:** The unfavorable schedule variance (-\$1.4M; -12.1%) is the result of the following:

Delays have been experienced in the start of fieldwork for Vadose Resource Conservation and Recovery Act of 1976 (RCRA) Corrective Actions activities due to cross-site transfer resource limitations. In addition, work stoppages due to high winds have delayed progress on characterization boreholes.

The 244-CR Vault activities are delayed due to lack of available field and engineering resources.

**Impact:** Some 244-CR Vault activities will be deferred to FY 2004.

**Corrective Action:** The schedule for RCRA activities will be recovered by September 2003.

In-tank videotaping of 244-CR Vault tanks 001 and 002 will be performed to ensure that they contain no liquids and other activities will be deferred to FY 2004.

### COST VARIANCE

**Description and Cause:** The unfavorable cost variance (-\$4.7M; -45.6%) is the result of the following:

Unplanned costs have been incurred on the 244-AR Vault due to equipment failures, and additional resources which were required to ensure that sound readiness preparation and system turnover are completed to meet *Tri-Party Agreement* milestones.

The budget for the Environment Impact Statement (EIS) in the new baseline is level-loaded and performance is being earned on a level-of-effort basis. However, through March approximately 75% of the work has been accomplished, creating the unfavorable variance to the baseline.

**Impact:** A fiscal year end unfavorable cost variance is forecasted for 244-AR Vault activities.

**Corrective Action:** Cost savings will be realized in 244-AR Vault activities by formalizing lay-up and intrusion to meet the Tri-Party Milestone only, and some equipment will be left in place rather than being removed.

The EIS unfavorable cost variance will self-correct by fiscal year end.

## PED - PROJECT ENGINEERING AND DESIGN

### PERFORMANCE SUMMARY

FY 2003 Cumulative Performance – Project Engineering and Design						
	<u>BCWS</u>	<u>BCWP</u>	<u>ACWP</u>	<u>SV</u>	<u>CV</u>	<u>BAC</u>
HANDI	37	(105)	645	-387.1%	-711.8%	\$1,957

### SCHEDULE VARIANCE

#### PROJECT ENGINEERING AND DESIGN – CAPITAL PROJECTS

##### Project W-464 - Immobilized High-Level Waste Interim Storage (Line Item)

**Description and Cause:** The unfavorable schedule variance (-\$0.1M; -387.1%) is the result of delays in initiating detailed design due to longer than expected contract negotiations.

**Impact:** There is no forecasted impact.

**Corrective Action:** Detailed design was initiated at the beginning of March 2003 and the schedule will be recovered by the end of FY 2003.

### COST VARIANCE

#### PROJECT ENGINEERING AND DESIGN – CAPITAL PROJECTS

##### Project W-464 - Immobilized High-Level Waste Interim Storage (Line Item)

**Description and Cause:** The unfavorable cost variance (-\$0.8M; -711.8%) is the result of a point-in-time adjustment that was recorded in March, based on CD-2 approval, which reduced project-to-date performance for Project W-464, Initial IHLW Storage Facility.

**Impact:** The project-to-date costs are accurately stated, however the fiscal year performance will continue to reflect an unfavorable variance as a result of this point-in-time adjustment.

**Corrective Action:** None required.

## **BNI Cost and Schedule Performance (March 2003)**

BNI is underway with implementing the 2003 Baseline Forecast into detailed work plans that requires integration of detailed cost and schedule data into the project management and control tools used for reporting performance. This work is not anticipated to be complete until June 2003 and therefore performance reporting will be provided through quantity installation and release data that drives physical progress and indicates project accomplishments.

According to the March 2003 Baseline Forecast, the WTP critical path runs through the design and construction of the Pretreatment Facility. During March, the release of engineering design for procurement and construction exceeded the Forecast plan.

The HLW facility is on a near critical path. This path is driven by the release of concrete drawings for the sequence of construction from El. -21ft through El. 62ft. During March, the engineering design for civil work was closely tied to and remained ahead of the near-term construction demand. This process is expected to continue for several more months. Other engineering deliverables exceeded the production goals for the month.

All commodities for the project are ahead of the March 2003 forecast schedule for both Engineering and Construction. Engineering releases are comfortably ahead of Construction need dates.

**HLW**

Key Commodity	Plan	Engineering			Construction		
		Schedule	Release	%Cmplt	Schedule	Installed	%Cmplt
Concrete (CY)	78,940	18,847	22,839	28.93%	18,446	18,907	23.95%
Struct. Steel (Tons)	6,415	247	346	5.39%	0	0	0.00%
Piping (LF)	147,640	0	272	0.18%	108	96	0.07%
Conduit (LF)	95,820	1,979	3,590	3.75%	0	2,306	2.41%
Cable Tray (LF)	58,940	0	15	0.03%	0	0	0.00%
Cable (LF)	1,546,987	0	0	0.00%	0	0	0.00%
HVAC Duct (LB)	1,080,438	60,000	62,802	5.81%	51,850	62,802	5.81%

**PT**

Key Commodity	Plan	Engineering			Construction		
		Schedule	Release	%Cmplt	Schedule	Installed	%Cmplt
Concrete (CY)	108,924	42,203	45,068	41.38%	3,315	4,394	4.03%
Struct. Steel (Tons)	9,377	80	80	0.85%	0	0	0.00%
Piping (LF)	385,542	3,621	3,837	1.00%	2,825	3,056	0.79%
Conduit (LF)	284,801	0	2,565	0.90%	279	326	0.11%
Cable Tray (LF)	36,510	0	0	0.00%	0	0	0.00%
Cable (LF)	1,121,200	0	0	0.00%	0	0	0.00%
HVAC Duct (LB)	1,216,734	0	0	0.00%	0	0	0.00%

**LAW**

Key Commodity	Plan	Engineering			Construction		
		Schedule	Release	%Cmplt	Schedule	Installed	%Cmplt
Concrete (CY)	27,320	13,760	13,760	50.37%	9,919	10,580	38.73%
Struct. Steel (Tons)	5,101	470	606	11.88%	0	0	0.00%
Piping (LF)	113,470	0	3,983	3.51%	0	0	0.00%
Conduit (LF)	300,625	0	14,640	4.87%	836	836	0.28%
Cable Tray (LF)	27,535	0	5,494	19.95%	0	0	0.00%
Cable (LF)	1,141,376	0	0	0.00%	0	0	0.00%
HVAC Duct (LB)	912,088	80,335	244,279	26.78%	0	0	0.00%

**BOF**

		Engineering				Construction		
Key Commodity	Plan	Schedule	Release	%Cmplt	Schedule	Installed	%Cmplt	
Concrete (CY)	18,529	439	1,722	9.29%	179	282	1.52%	
Struct. Steel (Tons)	1,176	30	50	4.25%	0	0	0.00%	
Piping (LF)	25,502	0	0	0.00%	0	0	0.00%	
Undergrnd Pipe (LF)	152,805	73,650	84,070	55.02%	38,413	39,871	26.09%	
Conduit (LF)	11,400	0	0	0.00%	0	0	0.00%	
DB Conduit (LF)	239,670	46,398	46,397	19.36%	27,648	32,053	13.37%	
Cable Tray (LF)	4,340	0	0	0.00%	0	0	0.00%	
Cable (LF)	831,603	0	0	0.00%	0	0	0.00%	